

ARKANSAS STATE HIGHWAY COMMISSION

PROPOSAL DOCUMENTS OF

FOR THE CONSTRUCTION OF

STATE JOB NO. C76050

STATE AID CITY JOB (CODE 9971)

BONO, LEACHVILLE & MONETTE OVERLAY & SURF. (SEL. SECS.) (S)

CITY STREET VARIOUS

IN CRAIGHEAD & MISSISSIPPI COUNTY

Bound herein are the Supplemental Specifications, Special Provisions, Proposal Documents and Schedule of Items applicable to this proposed construction contract.

Applicable to this proposed construction contract, but not bound herein, are the Arkansas State Highway Commission Standard Specifications for Highway Construction, Edition of 2014, and the Construction Plans.



CAUTION TO BIDDERS

Please review Section 102 of the Standard Specifications, 2014 Edition for Bidding Requirements and Conditions. Mistakes or omissions can be costly. Important items for you to check are included in, but not limited to, those listed below. This checklist is furnished only to assist you in submitting a proper bid. Check as you read.

- ☐ Have you acknowledged all Addenda by email or fax?
- ☐ Is the unit price entered appropriate for the item?
- ☐ Have you entered a unit price for each bid item except in the case of authorized alternate pay items? (A zero bid (\$0.00) is a valid price and will be considered.)
- ☐ Have you checked the Schedule of Items for various pay items that may have a minimum or maximum unit bid price? (Refer to the Standard Specifications for further information concerning these items)
 - ✓ Asphalt Binder
 - ✓ Relocating Precast Concrete Barrier
 - ✓ Water
 - ✓ Mobilization
- ☐ Have you limited your bid for Mobilization to five percent (5%) of the subtotal?
- ☐ For Federal-aid projects, did you complete the Certification for Federal aid Contracts?
- ☐ Prior to submitting your bid, did you check for error messages, and are all the folders "green"?
- ☐ If submitting a paper copy of the Proposal Guaranty (Bid Bond) is it signed by an officer of your company **AND** the Surety Agent?
- ☐ Did you ensure your Proposal Guaranty (if you are submitting a paper bond) will arrive prior to the time and date stated on Page 2 of the Proposal Documents?

1-17-08

Revised: 6-1-09

Revised: 2-15-12

Revised: 1-15-15

Revised: 5-26-16

Revised: 11-17-17

ARKANSAS DEPARTMENT OF TRANSPORTATION

NOTICE OF NONDISCRIMINATION

The Arkansas Department of Transportation (Department) complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore, the Department does not discriminate on the basis of race, sex, color, age, national origin, religion (not applicable as a protected group under the Federal Motor Carrier Safety Administration Title VI Program), disability, Limited English Proficiency (LEP), or low-income status in the admission, access to and treatment in the Department's programs and activities, as well as the Department's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department's nondiscrimination policies may be directed to Joanna P. McFadden Section Head – EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501)569- 2298, (Voice/TTY 711), or the following email address: joanna.mcfadden@ardot.gov

Free language assistance for Limited English Proficient individuals is available upon request.

This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.

Arkansas Department of Transportation
Supplemental Specifications and Special Provisions Listing
State Job Number C76050

The following supplemental specifications and special provisions for this project supplement the standard specifications, edition of 2014. In case of conflict, the supplemental specifications and special provisions shall govern.

ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
JOB SP	BIDDING REQUIREMENTS AND CONDITIONS
JOB SP	SETTLEMENT AGREEMENTS
JOB SP	MANDATORY ELECTRONIC CONTRACT
JOB SP	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB SP	ADJUSTMENT OF QUANTITIES FOR STATE-AID STREET PROJECTS
JOB SP	FLEXIBLE BEGINNING OF WORK (PAVEMENT PRESERVATION, CITY AID, AND STATE AID PROJECTS)
JOB SP	SCARIFYING AND RECOMPACTING ROADWAY
JOB SP	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB SP	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB SP	WARM MIX ASPHALT
JOB SP	DENSITIES FOR ACHM SURFACE COURSE
JOB SP	RECYCLED ASPHALT SHINGLES
SP 108-1	LIQUIDATED DAMAGES
SS 100-3	CONTRACTOR'S LICENSE
SS 100-4	DEPARTMENT NAME CHANGE
SS 102-2	ISSUANCE OF PROPOSALS
SS 108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
SS 303-1	AGGREGATE BASE COURSE
SS 306-1	QUALITY CONTROL AND ACCEPTANCE
SS 400-1	TACK COATS
SS 400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
SS 400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
SS 400-6	LIQUID ANTI-STRIP ADDITIVE
SS 410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
SS 410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
SS 604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
SS 723-1	GENERAL REQUIREMENTS FOR SIGNS

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS

Errors noted in the printed book of Standard Specifications for Highway Construction, Edition of 2014, are listed below and this publication is hereby revised as follows:

- Page 124: The third sentence of the first paragraph of Subsection 110.03(c) should read: The Engineer will make a decision within 10 business days concerning the necessity or practicability of the request.
- Page 195: The sixth paragraph of subsection 303.02 should read: For Classes 1 through 8 materials, the fraction passing the #200 (0.075 mm) sieve shall not be greater than three-fourths of the fraction passing the #40 (0.0425 mm) sieve. For Classes 3 through 8, the fraction passing the #40 (0.425 mm) sieve shall have a liquid limit not greater than 25.
- Page 363: In the second paragraph of Subsection 502.02, the reference to ASTM 775 should be replaced by "ASTM A 775".
- Page 636: In the second paragraph of Subsection 730.02, the references to AASHTO M 183 should be replaced with ASTM A36.
- Page 637: The last sentence of the second paragraph of Subsection 730.03 should read: All bolts, nuts, and washers shall be galvanized according to AASHTO M 232 or ASTM B 695, Class 40 or 50.
- Page 767: In the fourth paragraph of Subsection 807.06(a), the reference to ASTM B595 should be replaced by "ASTM B695".
- Page 841: Subsection 817.04(a) should read: The treatment of lumber and timber shall meet the applicable requirements of the current edition of the AWP, Standards U1, Commodity Specification E, Use Category UC4C.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

BIDDING REQUIREMENTS AND CONDITIONS

Section 102 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The fourth sentence of the second paragraph of **Subsection 102.01** is hereby deleted, and the following substituted therefore:

Prospective bidders may file a questionnaire at any time; however, prospective bidders will not be given authorization to submit a proposal unless a rating has been extended based on an acceptable questionnaire.

The last paragraph of **Subsection 102.01** is hereby deleted.

The second sentence of **Subsection 102.02** is hereby deleted, and the following substituted therefore:

The Notice to Contractors will contain a description of the proposed work, and information regarding access to proposal documents, plans, specifications, and the amount and nature of the proposal guaranty.

Subsection 102.03 is hereby deleted, renamed **Contents of Proposal Documents**, and the following substituted therefore:

The proposal documents will state the location and description of the contemplated construction and will show the estimate of the various quantities and kinds of work to be performed or materials to be furnished, and will have a schedule of items. The proposal documents will state the time in which the work must be completed, the amount of the proposal guaranty, and the date and time of the letting of work. The documents will also include any special provisions or requirements that vary from or are not contained in the standard specifications.

All forms included in the proposal documents are considered a part thereof. The plans, specifications, and other documents designated in the proposal documents will be considered a part of the proposal whether included or not.

The first through fourth paragraphs of **Subsection 102.04** are hereby deleted, and the following substituted therefore:

To become an eligible bidder, prospective bidders must be registered to bid in Arkansas with Bid Express. Prospective bidders must also contact the Program Management Division at (501) 569-2261 during regular business hours between the date the project is advertised and 4:30 p.m. on the day prior to the scheduled bid opening to request to become eligible to bid specific projects. Only prequalified contractors or their authorized representative may request to become an eligible bidder.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

BIDDING REQUIREMENTS AND CONDITIONS

If the prospective bidder's prequalification rating is not "unlimited", the bidder shall file a certification with the Department citing all contracts in force and the unfinished value of such work. A prospective bidder will not be allowed to submit a proposal until a certification for the current bidding period is on file and the amount of work the contractor may be allowed to undertake is determined. The contractor's prequalification rating, less the unfinished value of all contracts in force, will determine the amount of additional work that the contractor may be allowed to undertake. A contractor will not be allowed to submit a proposal on an individual project for which the estimated cost is more than the amount that the contractor may be allowed to undertake, but the contractor will be allowed to submit a proposal on more than one project, providing that the estimated cost of each project is not more than the amount that the contractor may be allowed to undertake. In the event a contractor submits a low bid on more than one project and the aggregate amount is greater than the amount the contractor may be allowed to undertake, the Commission will exercise its discretion in the award of a particular project or projects.

A charge will be assessed for authorization to submit a proposal, paper copies of the proposal documents, and plans issued. These services are provided during regular business hours until 4:30 p.m. on the day prior to the scheduled bid opening at the Arkansas Department of Transportation, 10324 Interstate 30, Little Rock, Arkansas 72209, (501) 569-2261. Payment shall be made at the time services are provided or upon receipt of statement therefore. No refund will be allowed for bids not submitted or for plans or proposal documents returned.

The second sentence of the first paragraph of **Subsection 102.06** is hereby deleted, and the following substituted therefore:

The bidder is expected to examine carefully the site of the proposed work, the proposal documents, plans, specifications, supplemental specifications, and special provisions before submitting a proposal.

The first paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The proposal shall only be submitted through the internet bidding service, Bid Express. The bidder shall specify a unit price in figures for each pay item for which a quantity is given. A unit price of "zero" (\$0.00) is a valid price and will be considered. A blank unit price is not considered valid. The unit bid price should not be carried beyond 1 cent (\$0.01). Any figures on the unit bid price beyond 1 cent will be dropped.

The second and third paragraphs of **Subsection 102.07** are hereby deleted.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

BIDDING REQUIREMENTS AND CONDITIONS

The fifth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The bidder's proposal must be submitted with a digital signature containing the name of the individual, one or more members of the partnership, one or more members or officers of each firm representing a joint venture, or one or more officers of a corporation, or by an agent of the Contractor legally qualified and acceptable to the Department.

The sixth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

If the proposal is submitted with a digital signature of any person who is not listed in the bidder's Prequalification Questionnaire (Questionnaire Form) as the individual, as a partner of a partnership, or as an officer of a corporation, authorization for such submittal should be on file with the Department prior to the download of bids. This authorization shall be made before the downloading of bids and be in the form of a Power of Attorney duly executed and signed by an official with power to constitute such authority.

The last sentence of the seventh paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

Those items of Asphalt Binder that are subject to a minimum bid price will bear the note "(Minimum bid price is \$120.00 per ton)" within the Schedule of Items of the proposal documents.

The first sentence of the ninth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The proposal documents for all federal aid projects will contain a bidders list.

The last sentence of the ninth paragraph of **Subsection 102.07** is hereby deleted, and the following substituted therefore:

The information provided will not be used for contract awarding purposes but must be provided before the Contractor will be given authorization to submit proposals for future lettings.

Subsection 102.08 Irregular Proposals is hereby deleted, and the following substituted therefore:

(a) Proposals will be considered irregular and will be rejected for the following reasons:

- (1) If the proposal does not contain a unit price for each pay item listed except in the case of authorized alternate pay items.
- (2) If the proposal is not digitally signed by an authorized representative of the firm.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

BIDDING REQUIREMENTS AND CONDITIONS

- (3) If the proposal is not accompanied by the proper proposal guaranty.
- (4) If a proposal is received from an individual, firm, partnership, or corporation with an interest, as principal, in another proposal for the same project.
- (5) If the proposal is not accompanied by the Certification to Submit DBE Participation.
- (b) Proposals will be considered irregular and may be rejected for the following reasons:
 - (1) If the proposal is not accompanied by a bid schedule and bid schedule narrative as required in the proposal documents.
 - (2) Unbalanced proposals in which the prices for some items are out of proportion to the reasonable costs representative of those items.
 - (3) If there are irregularities of any kind that may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.

The first sentence of **Subsection 102.09** is hereby deleted and the following substituted therefore:

No proposal will be considered by the Commission unless a guaranty in the form of a bank draft, certified check, or cashier's check drawn on a solvent bank or trust company, or a bidder's paper bond executed by an approved surety company has been received by the Program Management Division prior to the download of bids.

The following paragraph is hereby added after the first paragraph of **Subsection 102.09**:

Electronic bid bonds are allowed. The prospective bidder should verify their bid bond in their proposal prior to submission.

Subsection 102.10 is hereby deleted and the following substituted therefore:

The proposal shall only be submitted through the internet bidding service, Bid Express.

Subsection 102.11 is hereby deleted, and the following substituted therefore:

A bidder may withdraw or modify a proposal after it has been submitted to Bid Express, up to the time set for the deadline for proposals to be received. A proposal may also be withdrawn if the Commission fails to make an award within 40 calendar days after the date of downloading.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

BIDDING REQUIREMENTS AND CONDITIONS

Subsection 102.12 is hereby deleted, renamed **Downloading of Proposals**, and the following substituted therefore:

Proposals will be downloaded and then posted on the Department's website at the time and place indicated in the Notice to Contractors.

The last sentence of **Subsection 102.15** is hereby deleted, and the following substituted therefore:

In any case, the prospective bidders will be contacted prior to the download of bids.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

SETTLEMENT AGREEMENTS

Any firm, partnership, or corporation that has a common officer, owner, or partner with any contractor that is a party to a settlement agreement with the Department is bound by the terms of the contractor's settlement agreement.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

MANDATORY ELECTRONIC CONTRACT

Paper Contract Documents and Forms will not be accepted.

The Department will only accept and execute an electronic contract for this project through Doc Express, a paperless contracting system. Prospective bidders will need to contact Doc Express to set up an account prior to the bid opening date. The toll-free phone number for Doc Express is 1-888-352-2439 and their website address is www.docexpress.com.

Section 103 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows.

The first sentence of **Subsection 103.06(a)** is hereby deleted, and the following substituted therefore:

The Contract shall be electronically signed by the successful bidder and electronically submitted to the Program Management Division, Construction Contract Procurement Section, together with the required bonds and proof of liability insurance, within 10 business days after the notice of award has been issued.

Subsection 103.08(d)(3)d. is hereby deleted, and the following substituted therefore:

Documentation of the bidder's commitment to use a DBE subcontractor whose participation it submits to meet a contract goal; and

Subsection 103.08(d)(3)e. is hereby deleted, and the following substituted therefore:

Document confirmation from the DBE that it is participating in the contract as provided in the Contractor's commitment.

Subsection 103.08(d)(5) is hereby deleted, and the following substituted therefore:

The preceding information shall be submitted directly to the Arkansas Department of Transportation, Program Management Division, via Doc Express.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

MANDATORY ELECTRONIC DOCUMENT SUBMITTAL

Paper Document Submittals will not be accepted.

The Department will only accept electronically-submitted documents for consideration on this project. All correspondence and submittals to the Department shall be submitted through Doc Express, a paperless contracting system. When signed originals are required, the original shall be the document uploaded to Doc Express and the signature shall be the electronic signature applied through Doc Express. The Contractor shall use the same organizational account for project documentation as used to fulfill the requirements of the Mandatory Electronic Contract Special Provision. The toll-free phone number for Doc Express is 1-888-352-2439 and their website address is www.docexpress.com.

Any reference in the Standard Specifications to document submittal in writing or by U.S. Mail, facsimile, or in person is hereby amended to require that such documents be submitted using Doc Express with the following exceptions:

- Material delivery tickets which are used for payment or for field verification shall be submitted on paper as required by the Standard Specifications for Highway Construction, Edition of 2014.
- Any document with specific submittal requirements in state and/or federal law or federal regulations that conflict with the requirements of this Special Provision shall be submitted in accordance with such state and/or federal law or federal regulations.

A user guide is available on the Department's web page to assist Contractors with the use of Doc Express. The "Contractor Guide to Using Doc Express" is available on the Department's web page at this link:

http://ardot.gov/construction_division/Contractor_Guide_DocExpress.pdf.

The Contractor may provide access for subcontractors to view and submit items in Doc Express by following the instructions provided in the "Contractor Guide to Using Doc Express". Once an organizational account is activated and the Contractor provides access to the contract, a subcontractor may submit documents to the Contractor in Doc Express by uploading the electronic documents as directed in the User Guide. Any documents uploaded by the subcontractor must be then retrieved and published by the Contractor within Doc Express for further action by the Engineer. The Engineer will not review or take any actions on any documents submitted by the subcontractor until the document has been appropriately submitted by the Contractor.

Any submittals, documents, subcontracts, proposals, working drawings, or any other items submitted by the Contractor within Doc Express are not considered approved by the Engineer until written notification of the approval is published by the Engineer in the "CON-Correspondence-From Department to Contractor" drawer in Doc Express. Any action taken by the Contractor prior to this notification is taken at the Contractor's own risk.

The Department's System Administration team has no authority to take action on any documents submitted to the system. Access for this team is for management of the application only. Knowledge of any document submitted is not imputed to the Department by the knowledge of Systems Administration.

The requirements of this Special Provision shall supersede the requirements of all other Special Provisions unless such Special Provision includes a stated exception to this Special Provision.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

ADJUSTMENT OF QUANTITIES FOR STATE-AID STREET PROJECTS

Section 104 of the Standard Specifications for Highways Construction, Edition of 2014, is hereby amended as follows:

The following is added as the last paragraph of **Subsection 104.02**:

On State-Aid Street Projects, funding amounts are limited for each city. The Commission reserves the right to increase or decrease the quantities on a project at the time of the award in order to utilize all funds that are available or to ensure that funds are available to pay for the work performed. For projects which include more than one city, each city may have a different funding limit. On those projects the Commission reserves the right to increase or decrease the quantities placed within each city in order to utilize all funds that are available or to ensure that funds are available to pay for the work performed. The Contractor shall perform the work as increased or decreased in each city and no allowance will be made for anticipated profits on increases or decreases so incurred.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

**FLEXIBLE BEGINNING OF WORK
(PAVEMENT PRESERVATION, CITY AID, AND STATE AID PROJECTS)**

Section 108, Prosecution and Progress, of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 108.02 (b) Work Order.

(2) The last bullet stating "Erection of advance warning signs." is hereby deleted and the following substituted therefor:

- The Contractor may elect to erect advance warning signs for their convenience after the issuance of the work order but prior to the date that work will begin, provided that:
 - i. The signs are covered and kept properly covered until the work begins. Failure to cover the signs after initial installation will constitute the Contractor's intent to begin work and time charges will be assessed starting that date. The sign covering shall cover the face completely and prevent the message from being read during both day and night conditions and shall not damage the sheeting face. The covering materials shall be heavy duty, opaque and either dark green, brown, or black in color.
 - ii. No progress payments will be made for the Signs or Mobilization until after the work begins (for the purpose of this special provision, beginning of work is defined as the beginning of contract work other than the installation of signs and other traffic control devices, such as paving operations, shoulder construction operations, cold milling, etc.)

(4) **b. Working Day Contract.** is hereby deleted and the following substituted:

b. Working Day Contract. Unless the Contractor is otherwise advised in writing, the Work Order for a working day contract shall become effective on the fifteenth calendar day following the execution of the Contract by the Department. Should the effective date fall on Saturday, Sunday, a legal holiday designated in Subsection 101.01(c), Monday following a holiday on Sunday, or Friday preceding a holiday on Saturday, the effective date shall be the next work day. The written Work Order from the Engineer will follow with the effective date being as specified. The assessment of contract time, according to Subsection 108.06, will commence when the Contractor begins work or on August 19, 2019 if the Contractor has not commenced work. The Contractor will submit written notification to the Engineer five days prior to commencing work.

(4) **Subsection 108.02(c)** is hereby deleted.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

SCARIFYING AND RECOMPACTING ROADWAY

DESCRIPTION: This item shall consist of scarifying, spreading' and mixing in additional base course, blading, shaping, and recompacting the existing base and/or surface material; preparing the existing roadway for resurfacing; and stockpiling the excess material at the designated locations.

CONSTRUCTION REQUIREMENTS: When the existing asphalt surface consists of any type of ACHM, the layer(s) of ACHM may have to be removed and disposed of as directed by the Engineer. When the existing surface consists of one or more layers of Asphalt Surface Treatment, the Contractor shall have the option, with the approval of the Engineer, of either removing and disposing of the surface material or scarifying, breaking down, and mixing the surface material with the underlying base course material. Additional base shall be mixed with the existing base after scarifying. The base course shall then be scarified to a depth of 4" to 6" and recompact to a density, as determined by AASHTO T 310, Direct Transmission, of not less than 90% of the maximum laboratory density obtained by AASHTO T 180, Method D. Quality control and acceptance testing for density shall be according to the provisions of Section 306 except the minimum frequency of acceptance testing shall be based on a lot size of 6,000 square yards. The final elevation of the base course on the roadway shall allow for the surface course as shown on the plans

METHOD OF MEASUREMENT: Scarifying and Recompacting Roadway will be measured by the station measured along the centerline of the roadway. Roadways in each direction of a divided highway will be measured separately, and additional areas outside the normal roadway will be converted to the normal measurement on an equivalent area basis.

BASIS OF PAYMENT: Scarifying and Recompacting Roadway completed and accepted and measured as provided above will be paid for at the contract unit price bid per station for Scarifying and Recompacting Roadway, which price shall be full compensation for all scarifying, mixing, spreading, and shaping; for all watering, manipulating, finishing, compacting; for performing quality control and acceptance sampling and testing; and for all labor, equipment, tools, and incidentals necessary to complete the work.

Payment will be made under:

PAY ITEM

PAY UNIT

Scarifying and Recompacting Roadway

Station

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS

Division 106 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following is hereby added to **Subsection 106.04, Acceptance of Materials**:

All ACHM Contractor Acceptance Tests shall be submitted electronically by use of the ACHM Microsoft Excel Spreadsheet for Contractors/Suppliers and on paper.

The ACHM Microsoft Excel Spreadsheet for Contractors/Suppliers can be downloaded from the following website: http://www.ardot.gov/contracts/contractor_information/contractor.aspx.

To download this file and the supporting documentation, click on the link labeled Contractor_ACHM.exe which is listed under User Help File and Utilities on the website noted above.

Use of this file requires Microsoft Excel 2000, 2003, or 2007.

The preferred method of transmitting the file is to e-mail the completed ACHM Microsoft Excel Spreadsheet for Contractors/Suppliers to the Department's ACHM Plant Inspector assigned to the project. It is also acceptable to transmit the file by Compact Disk (CD) or other electronic device. Regardless of the method of transmission used, the signed paper acceptance tests must be provided to the Resident Engineer.

Any questions or issues arising from the use of this file should be referred to the Resident Engineer.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT

Section 409.03(h) of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following bullet is added under detailed requirements:

- Broadband Internet Service shall be provided.

The Broadband Internet Service shall be provided with an Internet Protocol (IP) address which is reachable on the global Internet (public) and which is permanently assigned (static). The Contractor is not required to provide this service if an IP address which is both static and public is not available.

If this service is not available at the beginning of a project but becomes available during the life of the project, the Contractor shall provide the service immediately from the date of availability.

The data transfer rate shall be 3 megabits per second (Mbps) download and 500 kilobits per second (kbps) upload, or higher, with latency not to exceed 150 milliseconds. If the Broadband Internet Service meets all of the requirements of this specification except for the data transfer rate and/or latency, then the best performing available connection shall be provided.

Prior to the selection of the Broadband Internet Service provider, the Contractor shall submit to the Resident Engineer, in writing, the proposed method for providing Broadband Internet Service. The Resident Engineer shall review this submittal and respond in writing regarding the acceptability of the proposed method.

The Broadband Internet Service shall be provided with equipment providing one Ethernet port.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

WARM MIX ASPHALT

DESCRIPTION: The Department will allow the use of Warm Mix Asphalt (WMA). All provisions for the production and placement of conventional HMA mixtures as stipulated in Section 410 Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses of the Standard Specifications for Highway Construction, Edition 2014, are applicable except as noted below.

Section 410 Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 410.03: Replace the third sentence with "WMA production temperatures at the plant shall be according to the Contractor's approved mix design but may be adjusted based on recommendations of the WMA additive/process manufacturer."

Add the following paragraph: "Implementation of best management practices in the control of aggregate moisture content prior to introduction to the drying or mixing drum is highly recommended in order to achieve the maximum benefit of WMA technology."

Section 410.07: Replace the last sentence of the first paragraph with "Spreading and finishing temperatures shall be according to the Contractor's approved mix design, but in no case shall the WMA be placed at a temperature less than 220° F."

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

DENSITIES FOR ACHM SURFACE COURSE

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following is hereby added as the second paragraph of **Subsection 407.04, Construction Requirements and Acceptance:**

On city street projects, the Engineer may reduce the required minimum density of the ACHM Surface Course to 90% of the maximum theoretical density based on actual field conditions which would either prevent obtaining 92.0% of the maximum theoretical density or when damage to underlying utilities and/or subgrade is imminent. However, no reduction from the specified density of 92.0% will be permitted on ACHM placed on a subgrade, an underlying base course, or layers of ACHM constructed by the Contractor under this same contract.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

JOB NO. C76050

RECYCLED ASPHALT SHINGLES

DESCRIPTION: This specification covers the use of Recycled Asphalt Shingles (RAS) in Asphalt Concrete Hot Mix (ACHM).

MATERIALS: ACHM utilizing RAS shall meet all of the requirements of Sections 404, 409, 410, and 416 and the requirements of Section 405, 406, or 407 for the mixture type specified on the plans. The mix design will follow AASHTO MP 23-14 and AASHTO PP 78-14 except as follows:

- (1) A maximum of three (3) percent RAS by total mix weight will be allowed in any mix design. The amount of RAS will be included in the total Recycled Asphalt Pavement (RAP) percentage if RAP is used.
- (2) Shingle material shall be processed so that 100 percent passes the 3/8" (9.5 mm) sieve and ninety-five (95) percent passes the No. 4 (4.75 mm) sieve.
- (3) Pre-consumer, or manufacturer waste, shingles may be used in mix designs requiring PG 64-22 binder only.
- (4) Post-consumer, or tear-off, shingles may be used in mix designs requiring PG 64-22 binder only.
- (5) Pre- and post-consumer shingles may not be combined in mix designs.
- (6) Tear-off shingles shall be acquired from residential sources only and shall have been produced after 1980. In no case shall a roofing material containing rubber or rubber-like polymer components be used as RAS in asphalt mixes.
- (7) When using tear-off shingles, one stockpile test per lot of mix shall be conducted to confirm the binder content and gradation of the RAS product, and the sample shall be representative of the RAS material entering the production process for the lot tested. Binder content and gradation shall be determined using ARDOT 450 or AASHTO T 308. If AASHTO T 308 is used, the sample size shall be 400 grams, and the sample shall be oven dried to a constant mass (at a temperature not exceeding 140°F) prior to testing. Shingle fibers shall be removed from the extracted sample prior to gradation testing.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

LIQUIDATED DAMAGES

As specified in the Contract, liquidated damages for this project will be as shown in the following tables:

WORKING DAY PROJECTS

ORIGINAL CONTRACT AMOUNT		RATE
FROM MORE THAN	TO AND INCLUDING	-----
\$ 0	\$ 50,000	\$ 400
50,000	100,000	700
100,000	500,000	800
500,000	1,000,000	1,100
1,000,000	2,000,000	1,300
2,000,000	5,000,000	1,500
5,000,000	10,000,000	1,900
10,000,000	15,000,000	2,000
15,000,000	20,000,000	2,100
20,000,000	-----	2,500

FIXED DATE PROJECTS

ORIGINAL CONTRACT AMOUNT		RATE
FROM MORE THAN	TO AND INCLUDING	-----
\$ 0	\$ 50,000	\$ 90
50,000	100,000	100
100,000	500,000	200
500,000	1,000,000	250
1,000,000	2,000,000	320
2,000,000	5,000,000	400
5,000,000	10,000,000	600
10,000,000	-----	750

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
CONTRACTOR'S LICENSE

Section 102 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The third paragraph of **Subsection 102.01, Prequalification of Bidders** is hereby deleted and the following substituted thereof:

The attention of prospective bidders is directed to Ark. Code Ann. §17-25-101 et seq., Act 150 of the 1965 Acts of Arkansas, being an "Act Regulating the Practice of Contracting in the State of Arkansas", and any subsequent amendments made thereto. When the work offered is financed in whole with State funds and is estimated to cost \$50,000 or more, the prospective bidder must show evidence of license with the Contractors Licensing Board for the State of Arkansas before being furnished with a proposal form.

The third paragraph of **Subsection 108.01, Subletting of Contract** is hereby deleted and the following substituted thereof:

It shall be the responsibility of the Contractor to determine that all parties performing work amounting to \$50,000 or more are currently licensed by the Contractors Licensing Board for the State of Arkansas.

**ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
DEPARTMENT NAME CHANGE**

All references to the Arkansas State Highway and Transportation Department contained within the Standard Specifications for Highway Construction (Edition of 2014), the Qualified Products List, the Manual of Field Sampling and Testing Procedures, plan sheets, Supplemental Specifications, and all Special Provisions contained in this proposal are hereby deleted and replaced with the title of Arkansas Department of Transportation.

All references to AHTD contained within the Standard Specifications for Highway Construction (Edition of 2014), the Qualified Products List, the Manual of Field Sampling and Testing Procedures, plan sheets, Supplemental Specifications, and all Special Provisions contained in this proposal are hereby deleted and replaced with the abbreviation ARDOT.

All references to the Arkansas State Highway Commission contained within the Standard Specifications for Highway Construction (Edition of 2014), the Qualified Products List, the Manual of Field Sampling and Testing Procedures, the Standard Drawings, plan sheets, Supplemental Specifications, and all Special Provisions contained in this proposal remain in effect.

**ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
ISSUANCE OF PROPOSALS**

Section 102 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 102.04(j) is hereby deleted and the following is substituted therefore:

(j) If the prospective bidder is the Contractor on a current Contract with the Commission on which Liquidated Damages are being assessed, and there are no pending time extensions warranted to remove the project from Liquidated Damages.

Subsection 102.04(k) is hereby deleted and the following is substituted therefore:

(k) If the prospective bidder has a current Contract in default.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER

Section 108 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 108.02(b)(2) is hereby deleted and the following is substituted therefore:

(2) The delivery to the Department for execution of the Contract and bonds properly executed on behalf of the Contractor and surety and the minimum 72 hours advance notice as required above shall constitute the Contractor's authority to begin the following items of work:

- Mobilization;
- Preparation of shop drawings and other required submissions;
- Ordering, fabrication, assembly, and/or stockpiling of materials;
- Driving Test Piling; and
- Contract surveying, when Roadway and/or Bridge Construction Control is included in the Contract.
- Erection of advance warning signs.
- Installation of netting on structures to prevent nesting of migratory birds in accordance with applicable Special Provisions (if included in the Contract).
- Set up, installation, and testing of Automated Work Zone Information Systems (if included in the Contract).
- Off-site area approval process per Section 107.10(c).

Such advance work shall be subject to the Contractor's assumption of the risk of cancellation of the award and the following:

- The Contractor shall, on commencing such operations, take all precautions required for public safety and shall observe all the provisions in the Contract;
- In the event of cancellation of the award, the Contractor shall at Contractor expense do such work as necessary to leave the site in a neat condition to the satisfaction of the Engineer;
- In the event of cancellation of the award, all work performed shall be deemed to be at the Contractor's expense; and
- All work done under this subsection in accordance with the Contract before its execution by the Commission will, when the Contract is executed, be considered authorized work and will be paid for as provided in the Contract.

Unless otherwise notified in writing, no time will be assessed for work performed prior to the effective date of a Work Order.

No payments will be made prior to the date established by the Engineer under Subsection 109.07, which date will be after the effective date of a Work Order.

The Contractor shall not be entitled to any additional compensation or an extension of time for any delay, hindrance, or interference caused by or attributable to commencement of work before the effective date of a Work Order.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
AGGREGATE BASE COURSE

Section 303 of the Standard Specifications for Highway Construction, Edition 2014, is hereby amended as follows:

The second paragraph of **Subsection 303.02, Materials** is hereby deleted and the following substituted therefor:

The Contractor shall have the option of using any higher numbered class Aggregate Base Course than that specified, provided that payment will be for the class specified. Acceptance criteria shall be for the class specified. Different classes of Aggregate Base Course shall not be mixed in the same location.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
QUALITY CONTROL AND ACCEPTANCE

Division 300 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The first sentence of the third paragraph **Subsection 306.03 Acceptance Testing** is hereby deleted and the following substituted therefor:

If the material being furnished is crushed stone the Department will furnish the PL, LL, and PI for the material, further tests for PL, LL, and PI are waived.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
TACK COATS

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 401, Prime and Tack Coats and Emulsified Asphalt in Base Course, is hereby modified as follows:

The first sentence of **Subsection 401.03(a)** is hereby deleted and the following substituted therefore:

The surface to be treated with prime or tack coat shall be cleaned of dust, dirt, and loose or foreign material by sweeping with mechanical brooms immediately preceding the application of the prime or tack coat.

Third sentence of **Subsection 401.03(c)** is hereby deleted and the following is substituted therefore:

No dilution beyond that which is part of the emulsification process is permitted. The tack coat shall not be diluted, cut, or otherwise thinned after receipt from the manufacturer's facility.

The fifth sentence of **Subsection 401.03(c)** is hereby deleted and the following substituted therefore:

The rate of application shall be from 0.03 gallon to 0.10 gallon per square yard (0.1 L/sq m to 0.5 L/sq m) of residual asphalt as designated by the Engineer.

Section 410, Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses, is hereby modified as follows:

The sixth paragraph of **Subsection 410.05** is hereby deleted and the following substituted therefore:

For foreign material, or when the time lapse between courses is more than 8 hours, the earlier course shall be cleaned and given a tack coat before placing the succeeding course. When directed, the tack coat shall be applied and paid for under Section 401. If directed by the Engineer, a tack coat shall be used even though the elapsed time has been less than 8 hours.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 404, QUALITY CONTROL OF ASPHALT MIXTURES, is hereby modified as follows:

The third paragraph **Subsection 404.04** is hereby deleted and the following substituted therefore:

The accepted mix design shall be field verified by the Contractor at the start of mix production or after an interruption of more than 120 calendar days. The asphalt mixture shall be verified by testing mix that has been produced through the plant using the aggregate proportions shown on the accepted mix design. Production of Department approved mix designs for placement on non-ARDOT projects may be used for mix verification. The Contractor shall notify the Engineer sufficiently in advance for Department personnel to witness all testing of this production and shall provide copies of all test results to the Department.

Section 410, Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses is hereby modified as follows:

The first and second sentence of **Subsection 410.09, Acceptance of the Payment and Adjustments in Payment**, is hereby deleted and the following is substituted therefore:

- (a) General. The accepted mix design shall be verified by the Contractor at the start of mix production for that design or after an interruption of more than 120 calendar days. A maximum of 200 tons (200 metric tons) of materials may be placed on the roadway during the verification process.

Section 411, Asphalt Concrete Plant Mix is hereby modified as follows:

The third sentence of Subsection 411.05 (B), Acceptance is hereby amended and the following is substituted therefore:

- (b) Acceptance. The accepted mix design shall be field verified by the Contractor at the start of mix production or after an interruption of more than 120 calendar days.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The fourth sentence of Paragraph 1 of **Subsection 404.01(b), Design Requirements**, is hereby deleted and the following substituted therefor:

The optimum asphalt content is the asphalt binder content at 4% Air Voids (AV).

The first bullet of Paragraph 1 is hereby deleted and the following substituted therefor:

- PG 64-22 and PG 70-22 mixes will be designed using 4% air voids;

The second sentence of Paragraph 2 of **Subsection 404.04, Quality Control of Asphalt Mixtures**, is hereby deleted and the following substituted therefor:

Adjustments to the accepted mix design to conform to actual production values without re-design of the mixture shall be based on production of the mixture at a target value of 4.0% Air Voids (AV) in specimens and an asphalt binder content not less than that specified in the accepted mix design.

Table 405-1 of **Subsection 405.03 Materials** is hereby deleted and the following substituted therefor:

Table 405-1 Design Requirements for Asphalt Concrete Hot Mix Base Course (1-1/2" [37.5 mm])		
	Control Points	
Sieve (mm)	Percent Passing (%)	
2" (50.0)	100	
1½" (37.5)	90 - 100	
1" (25.0)	90 max.	
No. 4 (4.75)	-	
No. 8 (2.36)	15 - 41	
No. 16 (1.18)	-	
No. 30 (0.60)	-	
No. 50 (0.30)	-	
No. 200 (0.075)	0 - 6	
Asphalt Binder Content	Design Value	
% Air Voids	4.0	
% VMA	11.5 - 13.0	
Minimum Water Sensitivity Ratio	80.0	
% Anti-strip	As Required	
Fines to Asphalt Ratio*	0.6 - 1.6	
Wheel Tracking Test	<u>Design Gyration</u>	<u>Maximum Rut</u>
(8000 cycles, 100 psi, 64°C)	75 & 115	0.315 in. (8.000 mm)
	160	0.197 in. (5.000 mm)
	205	0.197 in. (5.000 mm)

*Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Table 406-1 of **Subsection 406.04, Construction Requirements and Acceptance**, is hereby deleted and the following substituted therefor:

Table 406-1		
Design Requirements for Asphalt Concrete Hot Mix Binder Course (1" [25 mm])		
Control Points		
Sieve (mm)	Percent Passing (%)	
1½" (37.5)	100	
1" (25.0)	90 - 100	
¾" (19.0)	90 max.	
No. 4 (4.75)	-	
No. 8 (2.36)	19 - 45	
No. 16 (1.18)	-	
No. 30 (0.60)	-	
No. 50 (0.30)	-	
No. 200 (0.075)	1 - 7	
Asphalt Binder Content	Design Value	
% Air Voids	4.0	
% VMA	12.5 – 14.0	
Minimum Water Sensitivity Ratio	80	
% Anti-strip	As Required	
Fines to Asphalt Ratio*	0.6 – 1.6	
Wheel Tracking Test (8000 cycles, 100 psi, 64°C)	<u>Design Gyration</u>	<u>Maximum Rut</u>
	75 & 115	0.315 in. (8.000 mm)
	160	0.197 in. (5.000 mm)
	205	0.197 in. (5.000 mm)

*Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Table 407-1 and Table 407-2 of **Subsection 407.04, Construction Requirements and Acceptance**, are hereby deleted and the following substituted therefor:

Table 407-1		
Design Requirements for Asphalt Concrete Hot Mix Surface Course (1/2" [12.5 mm])		
Sieve (mm)	Control Points	
	Percent Passing (%)	
3/4" (19.0)	100	
1/2" (12.5)	90 - 100	
3/8" (9.5)	90 max.	
No. 8 (2.36)	28 - 58	
No. 16 (1.18)	-	
No. 30 (0.60)	-	
No. 50 (0.30)	-	
No. 200 (0.075)	2 - 10	
Asphalt Binder Content	Design Value	
% Air Voids	4.0	
% VMA	14.0 – 16.0	
Minimum Water Sensitivity Ratio	80.0	
% Anti-strip	As Required	
Fines to Asphalt Ratio*	0.6 – 1.6	
Wheel Tracking Test (8000 cycles, 100 psi, 64°C)	<u>Design Gyration</u>	<u>Maximum Rut</u>
	75 & 115	0.315 in. (8.000 mm)
	160	0.197 in. (5.000 mm)
	205	0.197 in. (5.000 mm)

*Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
PERCENT AIR VOIDS FOR ACHM MIX DESIGNS

Table 407-2
Design Requirements for Asphalt Concrete Hot Mix Surface Course (3/8" [9.5 mm])

Sieve (mm)	Control Points	
	Percent Passing (%)	
1/2" (12.5)	100	
3/8" (9.5)	90 - 100	
No. 4 (4.75)	90 max.	
No. 8 (2.36)	32 - 67	
No. 16 (1.18)	-	
No. 30 (0.60)	-	
No. 50 (0.30)	-	
No. 200 (0.075)	2 - 10	
Asphalt Binder Content	Design Value	
% Air Voids	4.0	
% VMA	15.0 – 17.0	
Minimum Water Sensitivity Ratio	80.0	
% Anti-strip	As Required	
Fines to Asphalt Ratio*	0.6 – 1.6	
Wheel Tracking Test (8000 cycles, 100 psi, 64°C)	<u>Design Gyration</u>	<u>Maximum Rut</u>
	75 & 115	0.315 in. (8.000 mm.)
	160	0.197 in. (5.000 mm)
	205	0.197 in. (5.000 mm)

*Fines to asphalt ratio shall be defined as the percent materials passing the No. 200 (0.075 mm) sieve (expressed as a percent of total aggregate weight) divided by the effective asphalt binder content.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
LIQUID ANTI-STRIP ADDITIVE

Division 400 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Section 404, DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES, is hereby modified as follows:

The following is added as the last bullet following the first paragraph of **Subsection 404.01(b), Design Requirements**:

- All ACHM mixes must contain a liquid, anti-strip additive.

Section 409, MATERIALS AND EQUIPMENT FOR ASPHALT CONCRETE PLANT MIX COURSES, is hereby modified as follows:

The second paragraph of **Subsection 409.02 Asphalt Binder** is hereby deleted and the following is substituted therefor:

The asphalt binder for all Asphalt Concrete Hot Mixes shall contain a heat-stable, liquid anti-strip additive. The additive shall be furnished from the Qualified Products List. The additive shall not harm the completed bituminous concrete mixture and must be compatible with the aggregate and asphalt binder supplied for the project. The anti-strip additive shall be added either by an in-line blending process just before introduction of the asphalt binder to the mixer or by blending with the asphalt binder at the asphalt binder terminal. If blended at the terminal, the bill of lading accompanying the load being delivered to the hot mix asphalt plant shall include the anti-strip manufacturer's name, product name, and quantity of all anti-strip additive included in the load.

The liquid anti-strip additive shall be added at rates as indicated below:

- For ACHM mixes where the use of an anti-strip additive is required as determined by the laboratory analysis and mix design procedures, the anti-strip additive shall be added at the rate of 0.50% to 0.75% by weight of asphalt binder as determined by the laboratory analysis and laboratory mix design procedures.
- For all other mixes, the manufacturer's recommended dosage of the additive shall be used, but the rate of liquid anti-strip additive shall not be less than 0.25% by weight of the asphalt binder.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL SPECIFICATION

**CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF
ASPHALT CONCRETE PLANT MIX COURSES**

Section 410, Construction Requirements and Acceptance of Asphalt Concrete Plant Mix Courses, of the Standard Specifications for Highway Construction, Edition of 2014, is hereby modified as follows:

Subsection 410.10 Incentives is hereby deleted.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS

Section 410 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The fourth sentence of the first paragraph of **Subsection 410.08, Rolling and Density Requirements and Joints**, is hereby deleted and the following substituted therefor:

The Engineer will observe the Contractor's use of an electromagnetic surface contact device that meets ASTM D7113/D7113M or the use of a nuclear density gauge to verify that the maximum densities possible are obtained.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
RETROREFLECTIVE SHEETING FOR
TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES

Section 604 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

The following is inserted after the first paragraph of Subsection 604.02(b):

Retroreflective sheeting used on traffic drums shall meet the requirements of ASTM D4956 for Type III or IV with the additional requirements for Reboundable Sheeting. Retroreflective sheeting for delineators shall comply with section 728.

Retroreflective sheeting shall be applied to a properly treated substrate with mechanical equipment and in a manner specified by the sheeting manufacturer. Sign material (substrate) shall be of sufficient thickness and stability to maintain a substantial, effective sign for the duration of the project. One splice will be allowed in retroreflective sheeting on sign blanks. "Left", "Right", "Distances", and "Ahead" will be allowed on signs as inserts. All letters and numerals on inserts shall be of the same size and series as those on the sign face.

ARKANSAS DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL SPECIFICATION

GENERAL REQUIREMENTS FOR SIGNS

Section 723 of the Standard Specifications for Highway Construction, Edition of 2014, is hereby amended as follows:

Subsection 723.02(b) is hereby deleted and the following is substituted therefor:

(b) Sign Panels. Standard signs shall consist of a single sheet of aluminum alloy (ASTM B 209, Alloy 5052 H38) without stiffeners on the back. Minimum sign blank thickness shall be 0.080" (2.0 mm) for a sign size of 9 square feet (0.84 sq m) or less or 0.100" (2.5 mm) for a sign size greater than 9 square feet (0.84 sq m). Sign blanks shall be flat and straight and within commercial tolerances established by the aluminum industry.

Guide signs shall be fabricated using one piece extruded panels fabricated of aluminum alloy (ASTM B221, Alloy 6063 T6).

Extruded panel signs shall consist of sign panels; stringers or horizontal supporting members; necessary fasteners for assembling the units; reflective materials; letters; numerals; symbols; and border. All extrusions and fasteners shall be applied without causing objectionable projections on the sign face.

The one piece extruded aluminum panels shall be a minimum of 12" (300 mm) in width except one 6" (150 mm) panel may be used per sign face when necessary to construct the sign as shown on the plans.

All extruded panels shall be bolted together at every other hole (every 24" [610 mm]) with the faces and ends in alignment.

Single sheet and extruded panels to which reflective sheeting is to be applied shall be conversion coated as specified in ASTM B449 or ASTM B921 per the sheeting manufacturer's recommendations.

All fabrication, including cutting and punching of holes, excluding holes for demountable letters, numerals, symbols, and borders, shall be completed before conversion coating.

Sign panels shall be free of buckles, warp, dents, cockles, burrs, and defects resulting from fabrication. The surface of all sign panels shall be flat.

The Contractor shall submit a Certified Test Report to the Engineer covering the sign panels.

The first paragraph of **Subsection 723.02(c)** is hereby deleted and the following is substituted therefor:

ARKANSAS DEPARTMENT OF TRANSPORTATION

SUPPLEMENTAL SPECIFICATION

GENERAL REQUIREMENTS FOR SIGNS

(c) Retroreflective Sheeting. The retroreflective sheeting for signs shall comply with ASTM D4956 for Type III, IV, VIII, or IX retroreflective sheeting, except that Type IX retroreflective sheeting shall be used on all W1-6, W1-8, and OM-3 signs. ASTM D4956 Type XI sheeting shall be used on all R5-1 and R5-1a signs. All retroreflective sheeting shall have either Class 1 or Class 2 backing.

Subsection 723.02(d) is hereby deleted and the following is substituted therefor:

(d) Legend. All legend, which includes letters, numerals, symbols, arrows, and border, shall have a regular outline, be clean cut and sharp, and shall have a continuous stroke and border without ragged or torn edges.

All legend on guide signs shall be of the size shown on the plans. Legend on standard signs shall comply with the latest revision of FHWA Standard Highway Signs.

The legend on freeway main lane guide signs shall be demountable. Unless otherwise specified, the legend on all other guide signs shall be manufactured using either direct application or acrylic overlay film. All other signs shall be manufactured using standard industry processes, including silk screening, acrylic overlay film, and digital printing. Digitally printed signs shall be overlaid with a clear UV film per the sheeting manufacturer's recommendation.

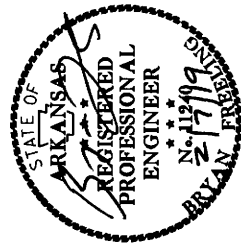
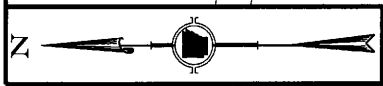
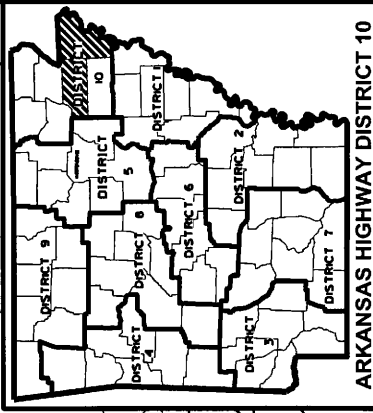
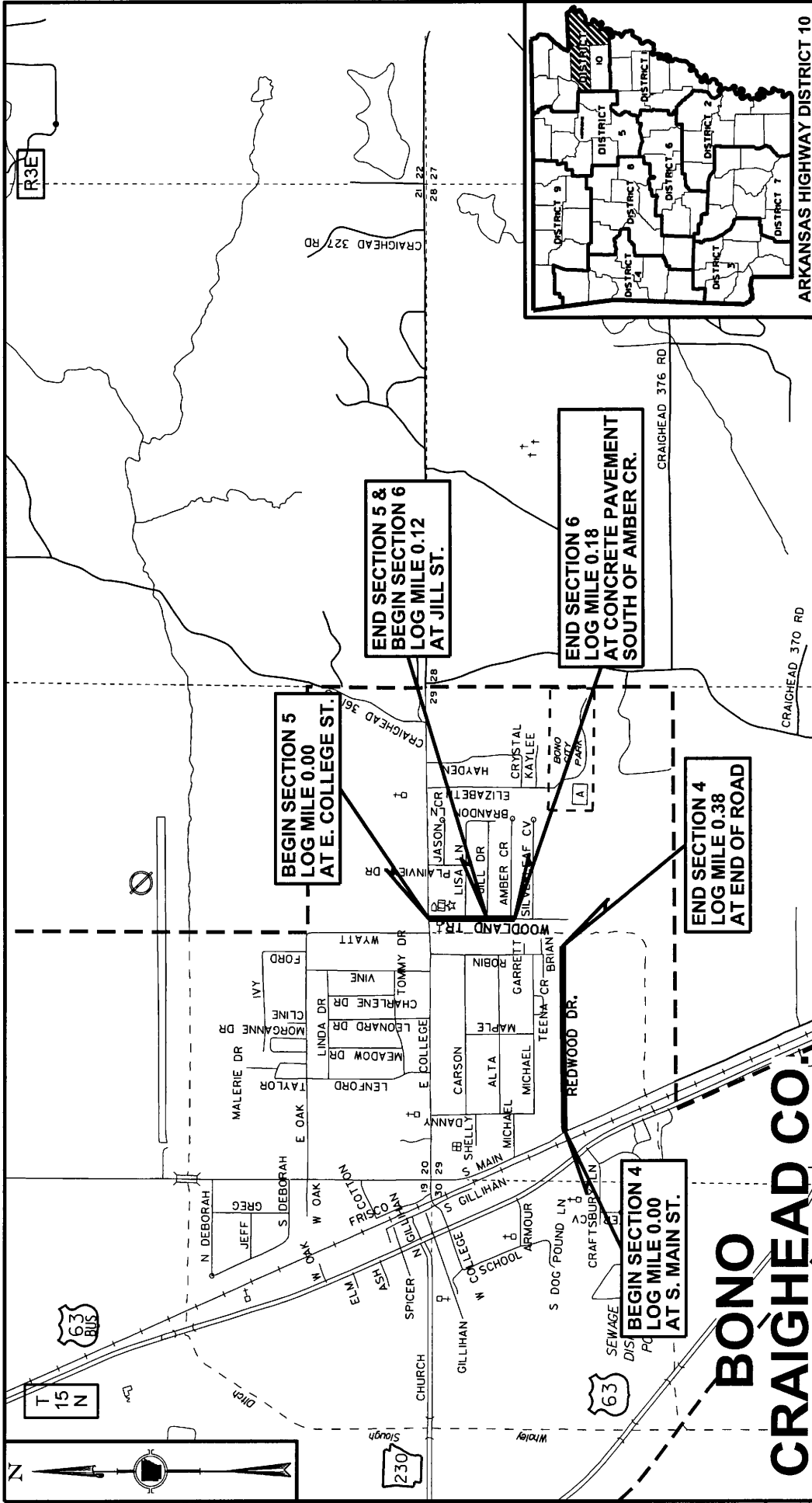
All demountable legend shall be of the same manufacturer. The sign area outside the corner radius shall not be trimmed to match the border radius.

Frames for border strips, corners, shields, and legend shall be fabricated from 0.063" (1.6 mm) sheet aluminum complying with the requirements of ASTM B209, Alloy 5052-H38. Mounting holes shall be provided with the frames to permit the use of screws, bolts, rivets, or other fasteners of stainless steel, galvanized steel, or aluminum to fasten the frames to the sign face, subject to the condition that dissimilar metals shall be insulated to prevent corrosion.

The aluminum frames shall comply with Subsection 723.02(b).

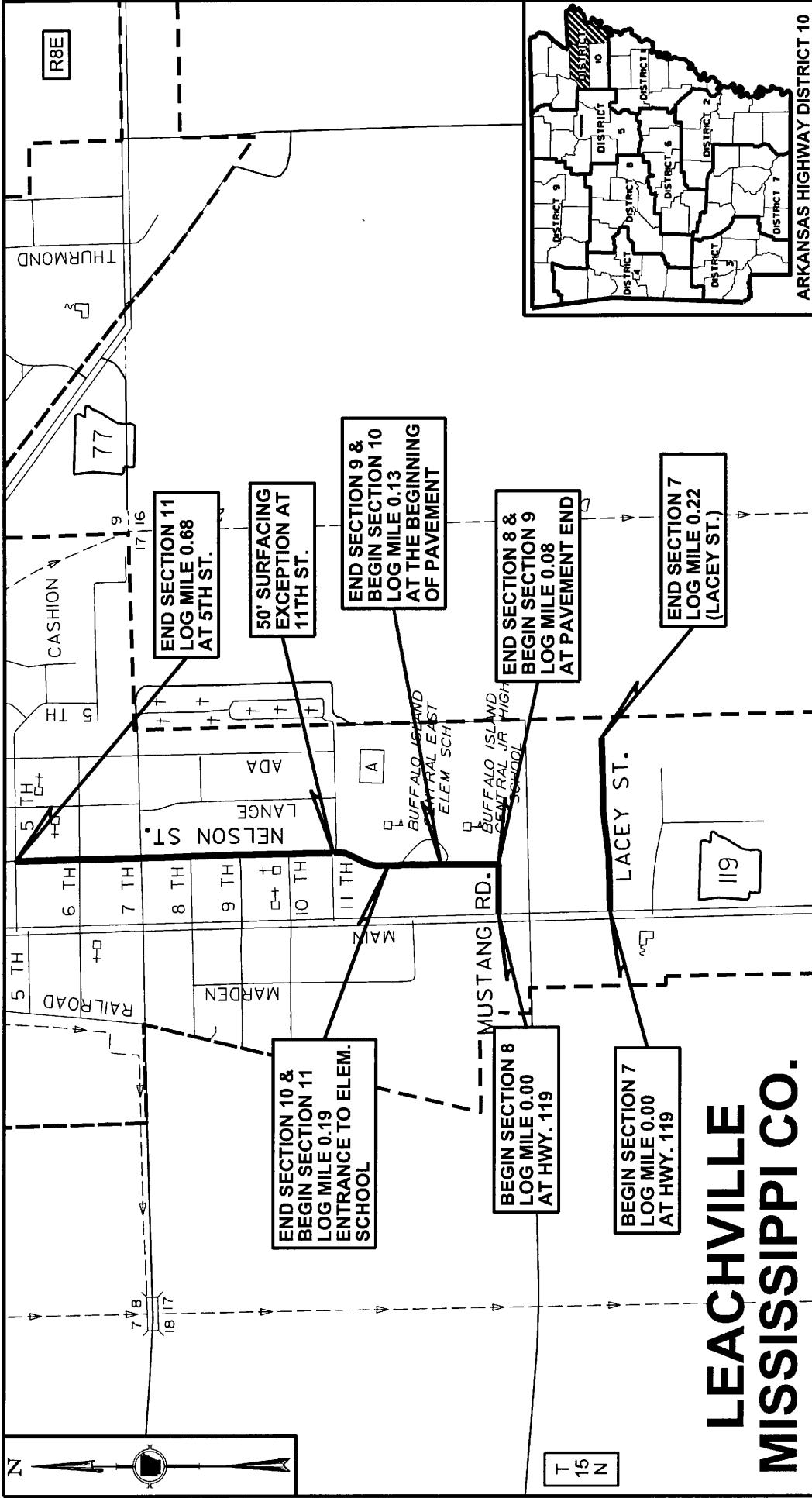
All border material shall be secured from the same company that furnishes the cutout letters, numerals, etc. and shall be mounted in the same manner as the cutout letters.

Transparent colors, inks, paints, and films used in the sign manufacturing process shall be of the type and quality recommended by the manufacturer of the reflective sheeting and shall conform to red, blue, yellow, and green colors approved by the FHWA and shown in the MUTCD and FHWA Standard Highway Signs. The Contractor shall provide a sheeting manufacturer's full component system warranty, and shall provide certification that the materials used shall meet all MUTCD minimum requirements for retroreflectivity and contrast for the warranty period of the sheeting.



JOB C76050
BONO, LEACHVILLE & MONETTE OVERLAY & SURF. (SEL. SECS.) (S)
VARIOUS CITY STREETS
CRAIGHEAD & MISSISSIPPI COUNTIES

BONO
CRAIGHEAD CO.

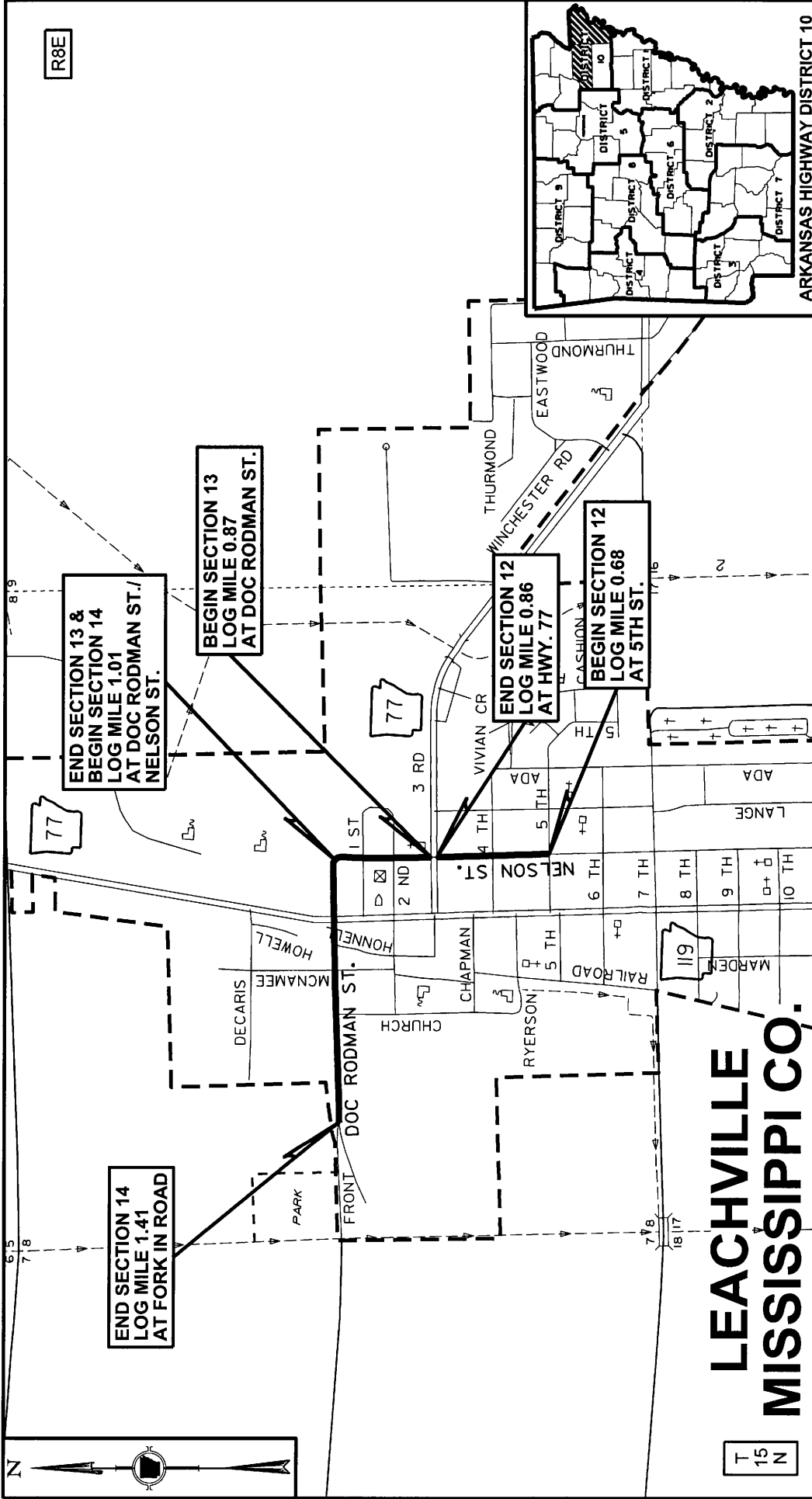


JOB C76050

BONO, LEACHVILLE & MONETTE OVERLAY & SURF. (SEL. SECS.) (S)
VARIOUS CITY STREETS
CRAIGHEAD & MISSISSIPPI COUNTIES



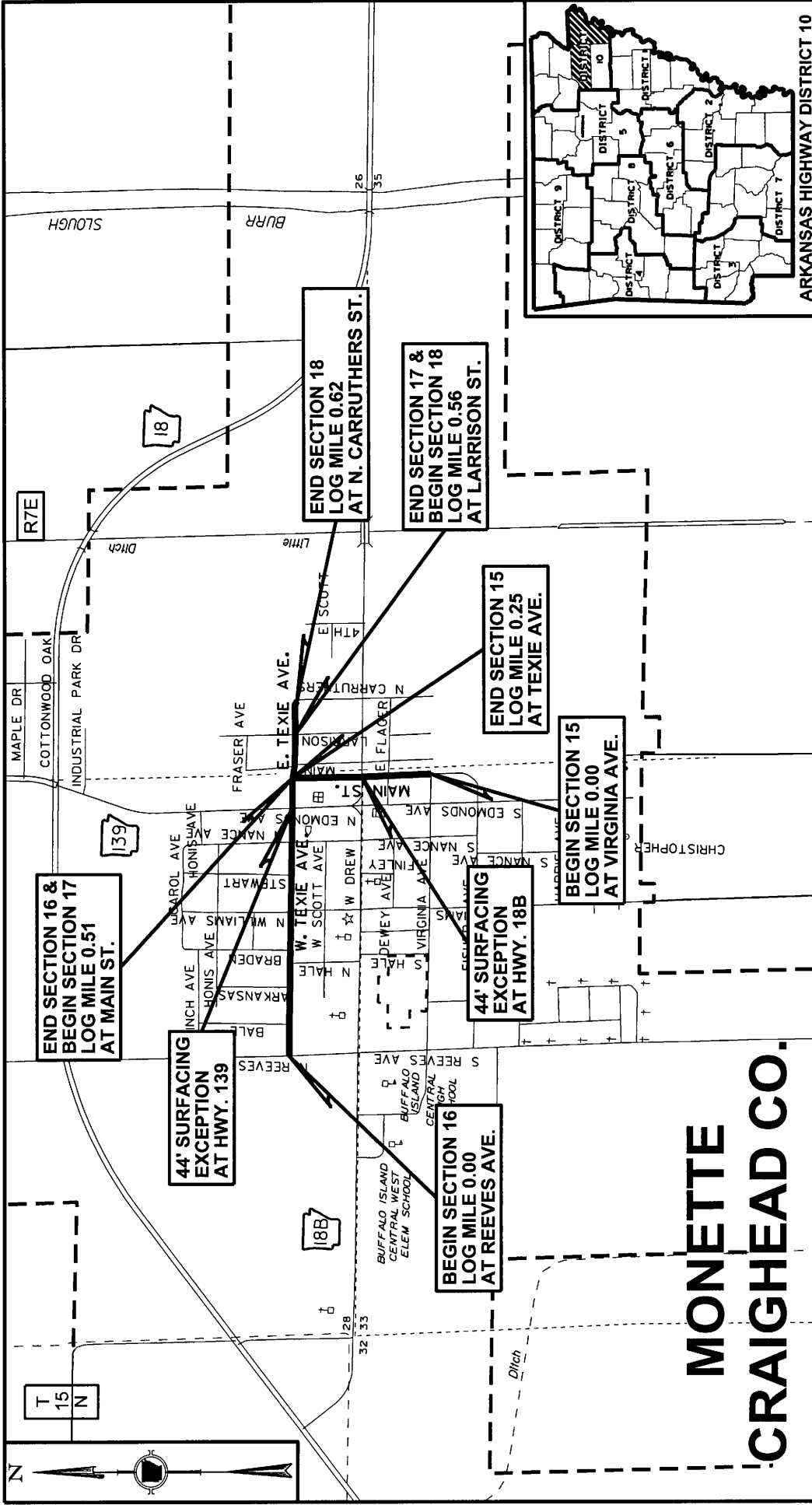
APPROXIMATE CENTER OF LEACHVILLE
 LATITUDE: N 35° 55' 07"
 LONGITUDE: W 90° 15' 23"



JOB C76050

BONO, LEACHVILLE & MONETTE OVERLAY & SURF. (SEL. SECS.) (S)
VARIOUS CITY STREETS
CRAIGHEAD & MISSISSIPPI COUNTIES





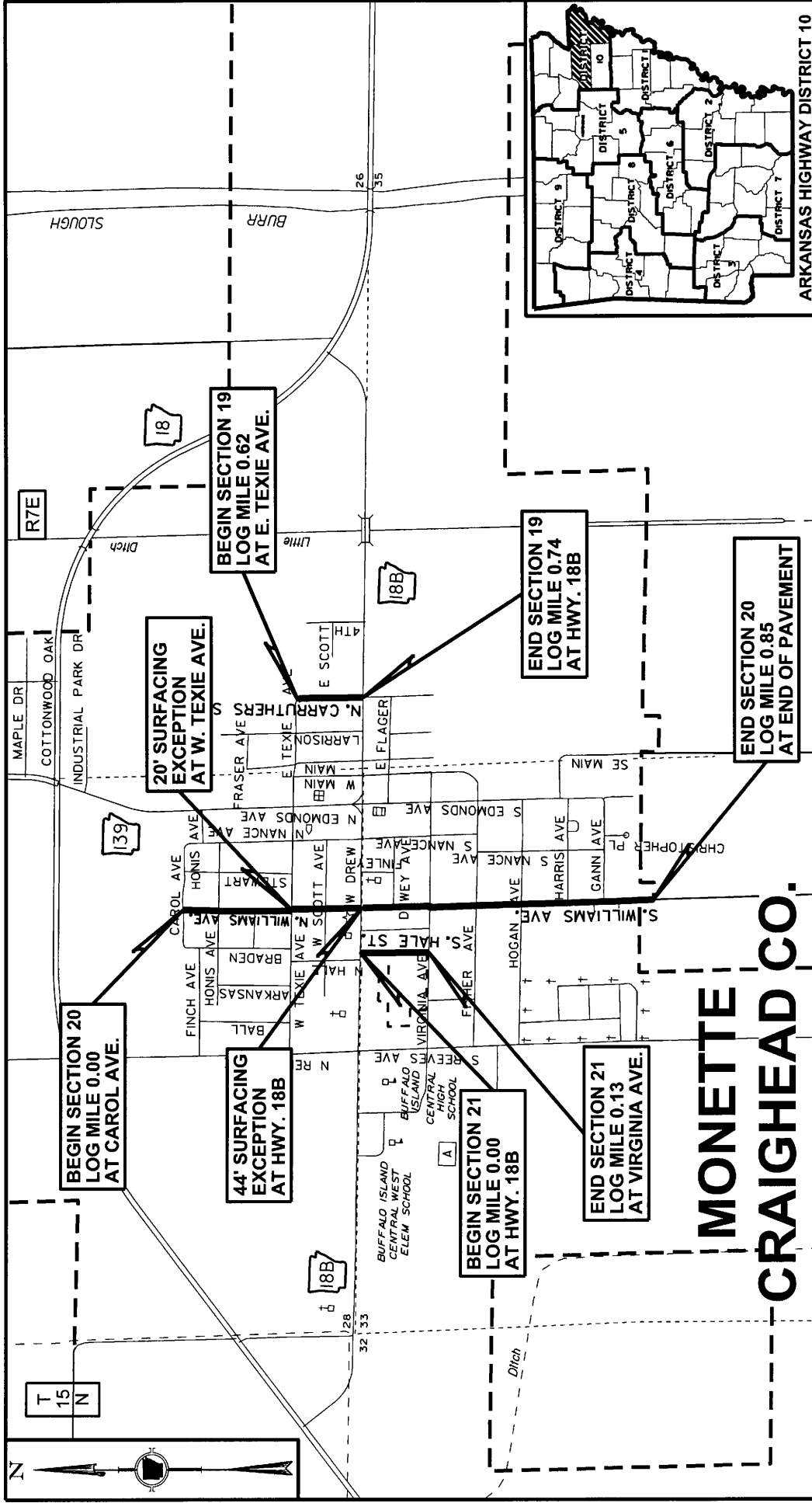
JOB C76050

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VARIOUS CITY STREETS
CRAIGHEAD & MISSISSIPPI COUNTIES

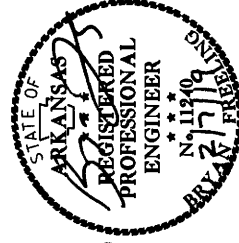
APPROXIMATE CENTER OF MONETTE
LATITUDE: N 35° 53' 50"
LONGITUDE: W 90° 21' 09"





JOB C76050

BONO, LEACHVILLE & MONETTE OVERLAY & SURF. (SEL. SECS.) (S)
VARIOUS CITY STREETS
CRAIGHEAD & MISSISSIPPI COUNTIES



INDEX OF SHEETS

SHEET NO.

TITLE

1 - 6	TITLE SHEETS
7	INDEX OF SHEETS AND STANDARD DRAWINGS
8	GOVERNING SPECIFICATIONS
9	GENERAL NOTES
10 - 27	TYPICAL SECTIONS OF IMPROVEMENT
28 - 31	SPECIAL DETAILS
32 - 47	QUANTITIES
48	SUMMARY OF QUANTITIES AND REVISIONS

ROADWAY STANDARD DRAWINGS

DRWG. NO.

TITLE

DATE

PM-1	PAVEMENT MARKING DETAILS	06-01-17
SHS-1	STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES	09-12-13
SHS-2	U-CHANNEL POST ASSEMBLIES	02-27-14
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	04-13-17
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	09-02-15

GOVERNING SPECIFICATIONS

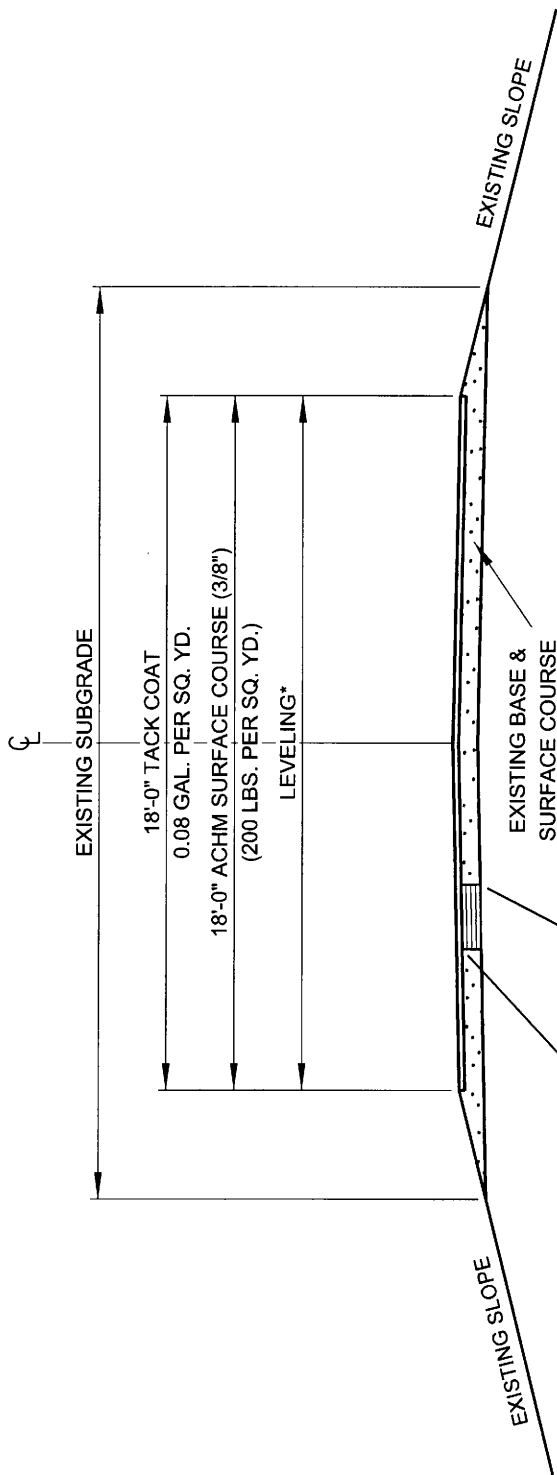
ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION,
EDITION OF 2014, AND THE FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.

NUMBER	TITLE
ERRATA	ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
100-3	CONTRACTOR'S LICENSE
100-4	DEPARTMENT NAME CHANGE
102-2	ISSUANCE OF PROPOSALS
108-1	LIQUIDATED DAMAGES
108-2	WORK ALLOWED PRIOR TO ISSUANCE OF WORK ORDER
303-1	AGGREGATE BASE COURSE
306-1	QUALITY CONTROL AND ACCEPTANCE
400-1	TACK COATS
400-4	DESIGN AND QUALITY CONTROL OF ASPHALT MIXTURES
400-5	PERCENT AIR VOIDS FOR ACHM MIX DESIGNS
400-6	LIQUID ANTI-STRIP ADDITIVE
410-1	CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
410-2	DEVICES FOR MEASURING DENSITY FOR ROLLING PATTERNS
604-1	RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
723-1	GENERAL REQUIREMENTS FOR SIGNS
JOB C76050	ADJUSTMENT OF QUANTITIES FOR STATE-AID STREET PROJECTS
JOB C76050	BIDDING REQUIREMENTS AND CONDITIONS
JOB C76050	BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB C76050	DENSITIES FOR ACHM SURFACE COURSE
JOB C76050	FLEXIBLE BEGINNING OF WORK (PAVEMENT PRESERVATION, CITY AID, AND STATE AID PROJECTS)
JOB C76050	MANDATORY ELECTRONIC CONTRACT
JOB C76050	MANDATORY ELECTRONIC DOCUMENT SUBMITTAL
JOB C76050	RECYCLED ASPHALT SHINGLES
JOB C76050	SCARIFYING AND RECOMPACTING ROADWAY
JOB C76050	SETTLEMENT AGREEMENTS
JOB C76050	SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB C76050	WARM MIX ASPHALT

GENERAL NOTES

1. THE CONTRACTOR SHALL CLIP GRASS AND DEBRIS FROM THE EDGE OF THE EXISTING ROADWAY. THESE "CLIPPINGS" SHALL BE PULLED UP TO THE EDGE OF THE NEW PAVEMENT IN SECTIONS WHERE THE SHOULDERS ARE NOT BEING REBUILT WITH AGGREGATE OR BORROW. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK.
2. SPEED BUMPS TO BE REMOVED BY THE CONTRACTOR. REMOVAL OF SPEED BUMPS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICES BID FOR OTHER ITEMS OF THE CONTRACT.
3. THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT ENGINEER.
4. SUPPLYING UTILITY RISERS AND INSTALLATION OF PERMANENT TRAFFIC SAFETY SIGNS NOT SHOWN IN THE PLANS ARE THE RESPONSIBILITIES OF THE CITY OF BONO, THE CITY OF LEACHVILLE, AND THE CITY OF MONETTE.

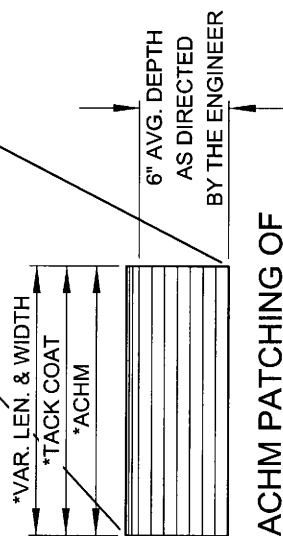
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

BONO

SECTION 1 - W. COLLEGE / SCHOOL / ARMOUR STREETS - L.M. 0.00 TO 0.31

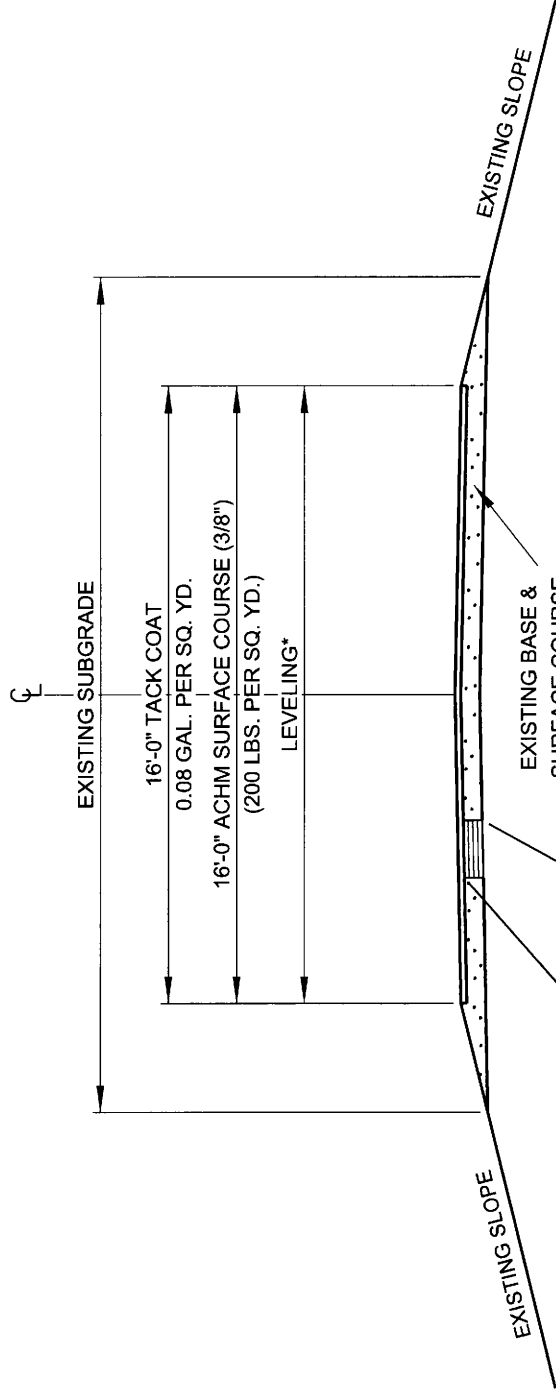


ACHM PATCHING OF EXISTING ROADWAY

PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
IN SECTION 415 OF THE STANDARD
SPECIFICATIONS FOR HIGHWAY
CONSTRUCTION.

* LOCATION AND APPLICATION RATES
ARE AT THE DIRECTION OF THE
ENGINEER. SEE QUANTITY SHEET FOR
ESTIMATED AMOUNTS.

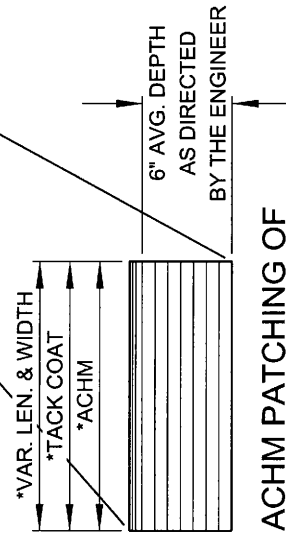
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

BONO

SECTION 2 - ELIZABETH STREET - L.M. 0.00 TO 0.50

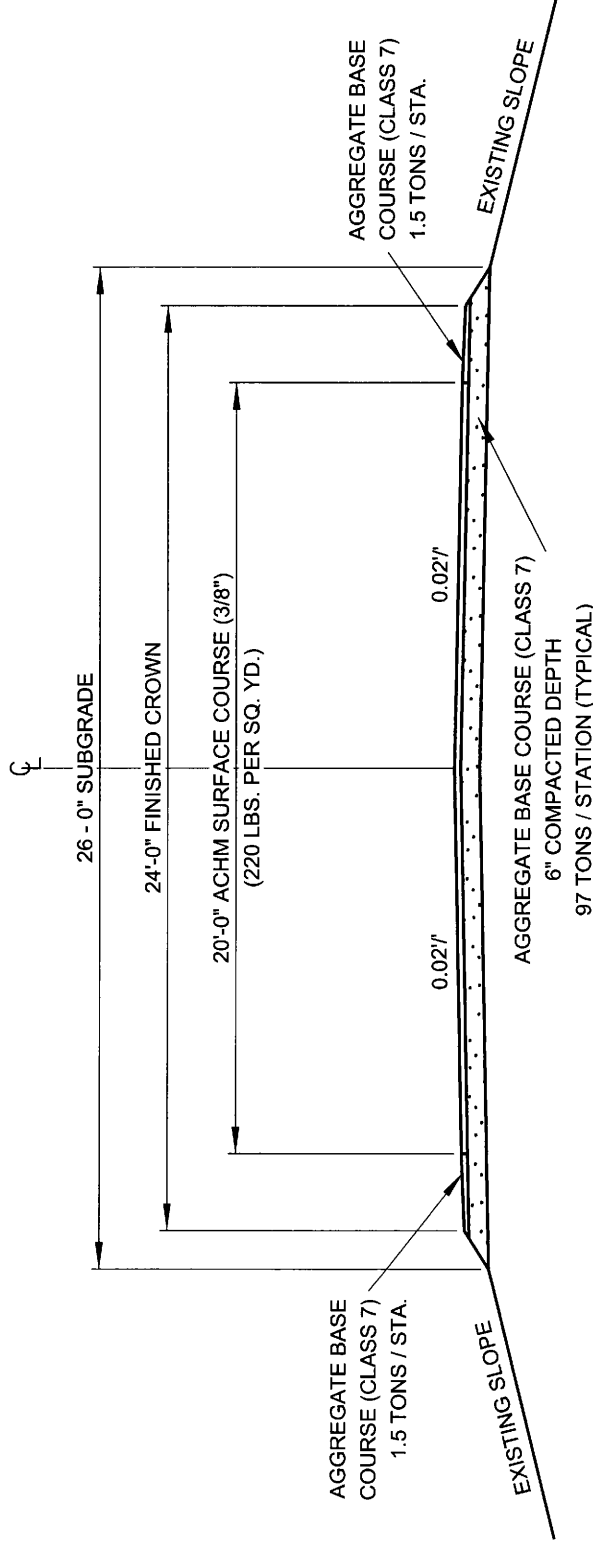


ACHM PATCHING OF EXISTING ROADWAY

PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
IN SECTION 415 OF THE STANDARD
SPECIFICATIONS FOR HIGHWAY
CONSTRUCTION.

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ESTIMATED AMOUNTS.

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



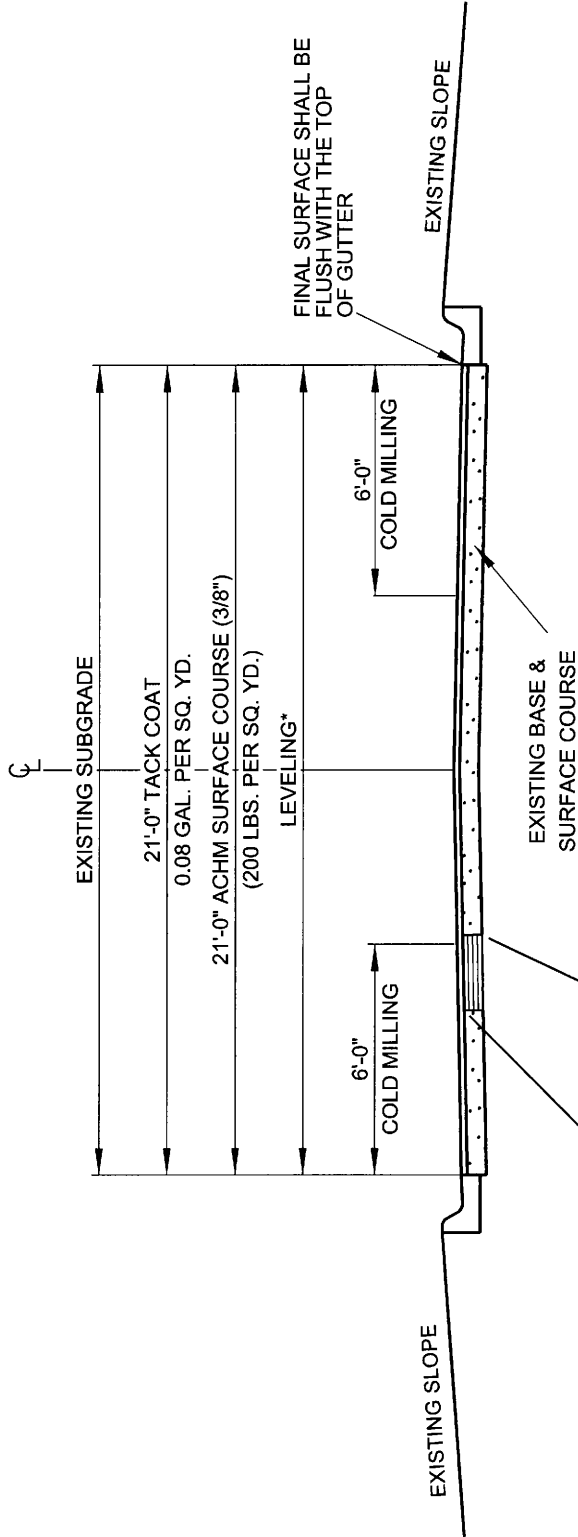
TYPICAL SECTIONS OF IMPROVEMENT

BONO

SECTION 3 - CR 100 - L.M. 0.00 TO 0.17

SECTION 4 - REDWOOD DRIVE - L.M. 0.00 TO 0.38

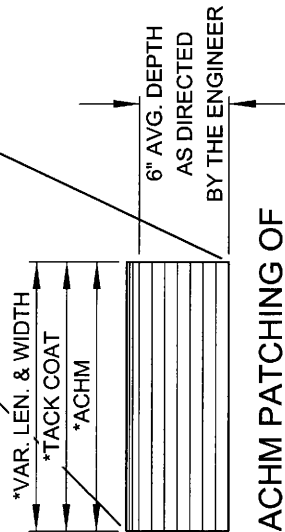
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

BONO

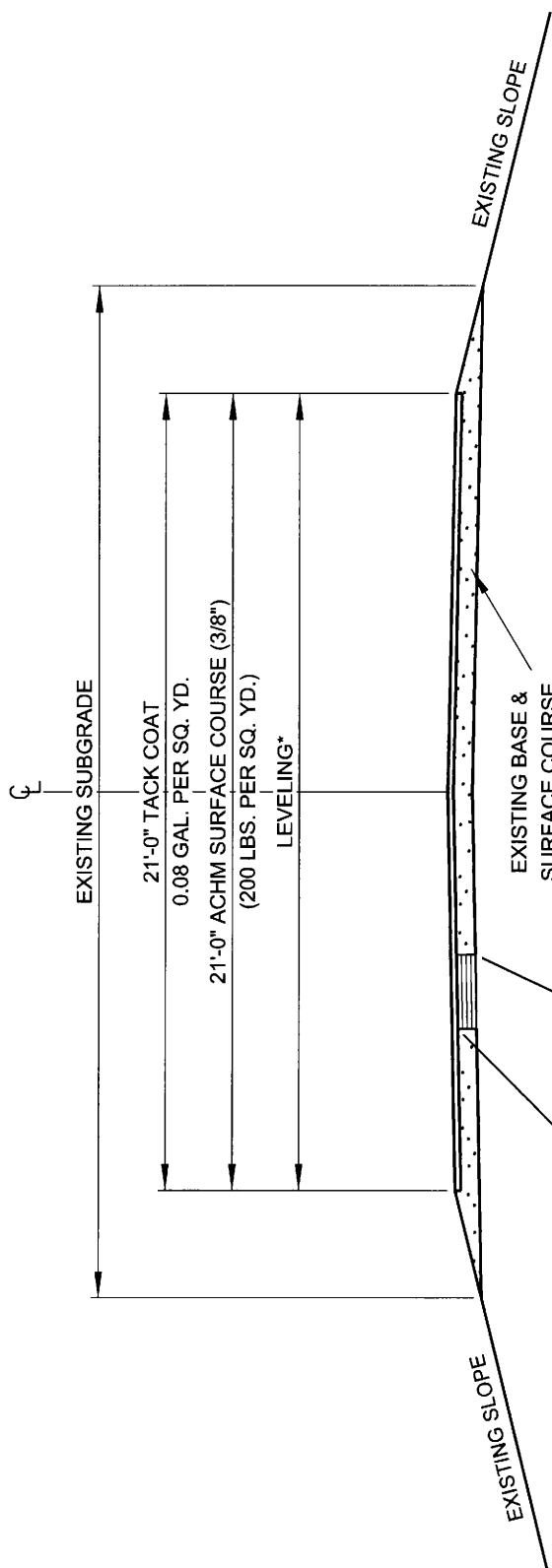
SECTION 5 - WOODLANE TRAIL - L.M. 0.00 TO 0.12



ACHM PATCHING OF EXISTING ROADWAY
 PAY ITEMS AND CONSTRUCTION REQUIREMENTS ARE AS DEFINED IN SECTION 415 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

* LOCATION AND APPLICATION RATES ARE AT THE DIRECTION OF THE ENGINEER. SEE QUANTITY SHEET FOR ESTIMATED AMOUNTS.

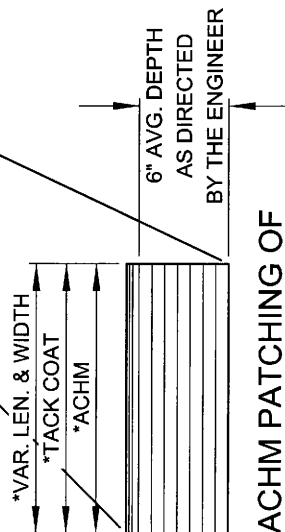
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

BONO

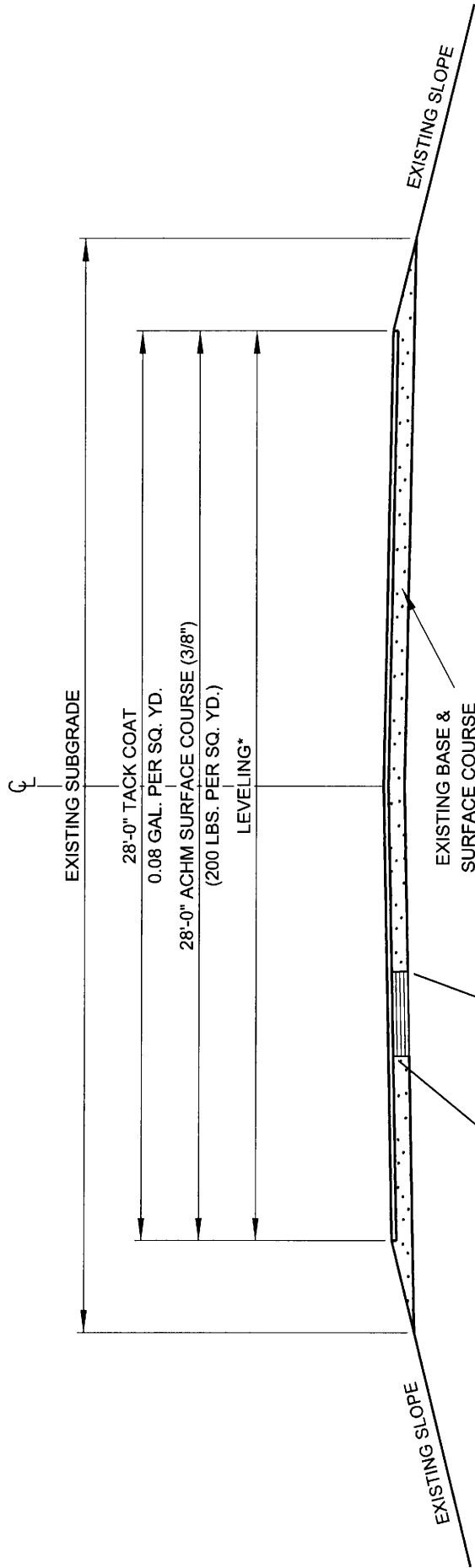
SECTION 6 - WOODLANE TRAIL - L.M. 0.12 TO 0.18



**ACHM PATCHING OF
EXISTING ROADWAY**
PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
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SPECIFICATIONS FOR HIGHWAY
CONSTRUCTION.

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ENGINEER. SEE QUANTITY SHEET FOR
ESTIMATED AMOUNTS.

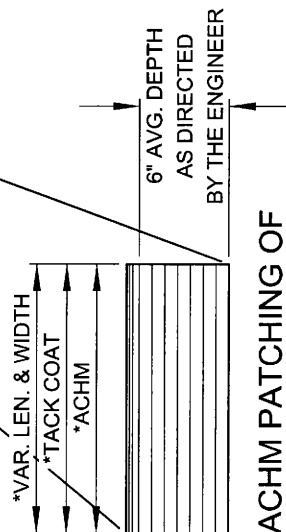
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

LEACHVILLE

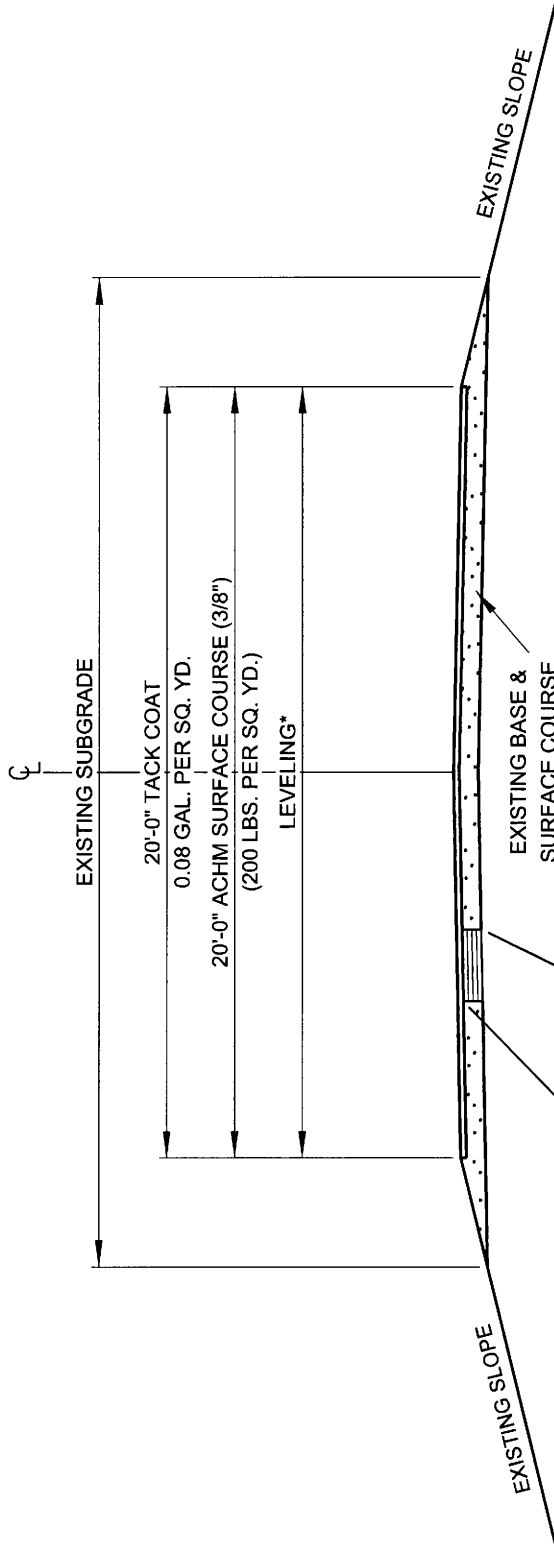
SECTION 7 - LACEY STREET - L.M. 0.00 TO 0.22



**ACHM PATCHING OF
EXISTING ROADWAY**
PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
IN SECTION 415 OF THE STANDARD
SPECIFICATIONS FOR HIGHWAY
CONSTRUCTION.

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ARE AT THE DIRECTION OF THE
ENGINEER. SEE QUANTITY SHEET FOR
ESTIMATED AMOUNTS.

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.

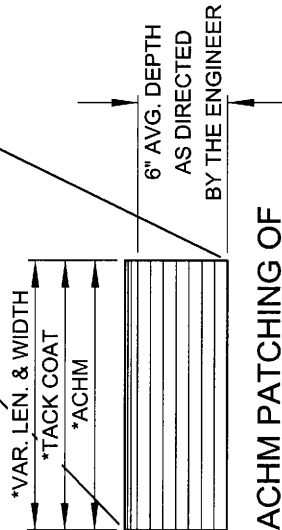


TYPICAL SECTIONS OF IMPROVEMENT

LEACHVILLE

SECTION 8 - MUSTANG ROAD / NELSON STREET - L.M. 0.00 TO 0.08

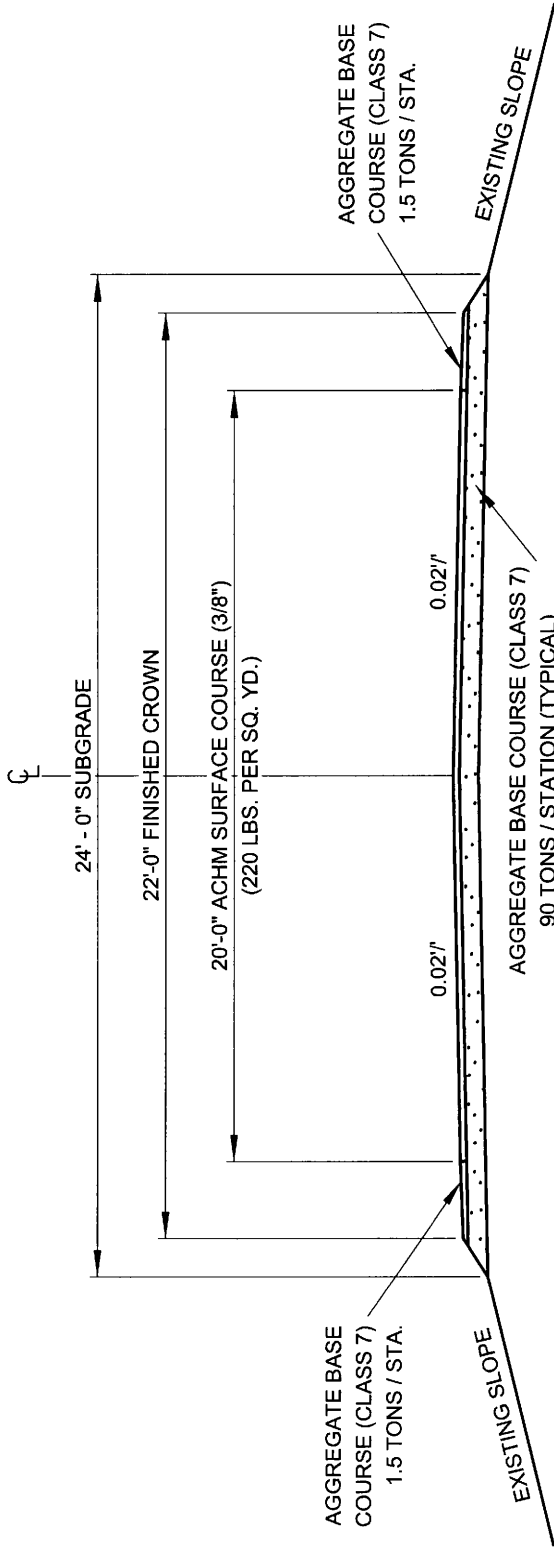
SECTION 12 - NELSON STREET - L.M. 0.68 TO 0.86



* LOCATION AND APPLICATION RATES
ARE AT THE DIRECTION OF THE
ENGINEER. SEE QUANTITY SHEET FOR
ESTIMATED AMOUNTS.

ACHM PATCHING OF
EXISTING ROADWAY
PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
IN SECTION 415 OF THE STANDARD
SPECIFICATIONS FOR HIGHWAY
CONSTRUCTION.

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.

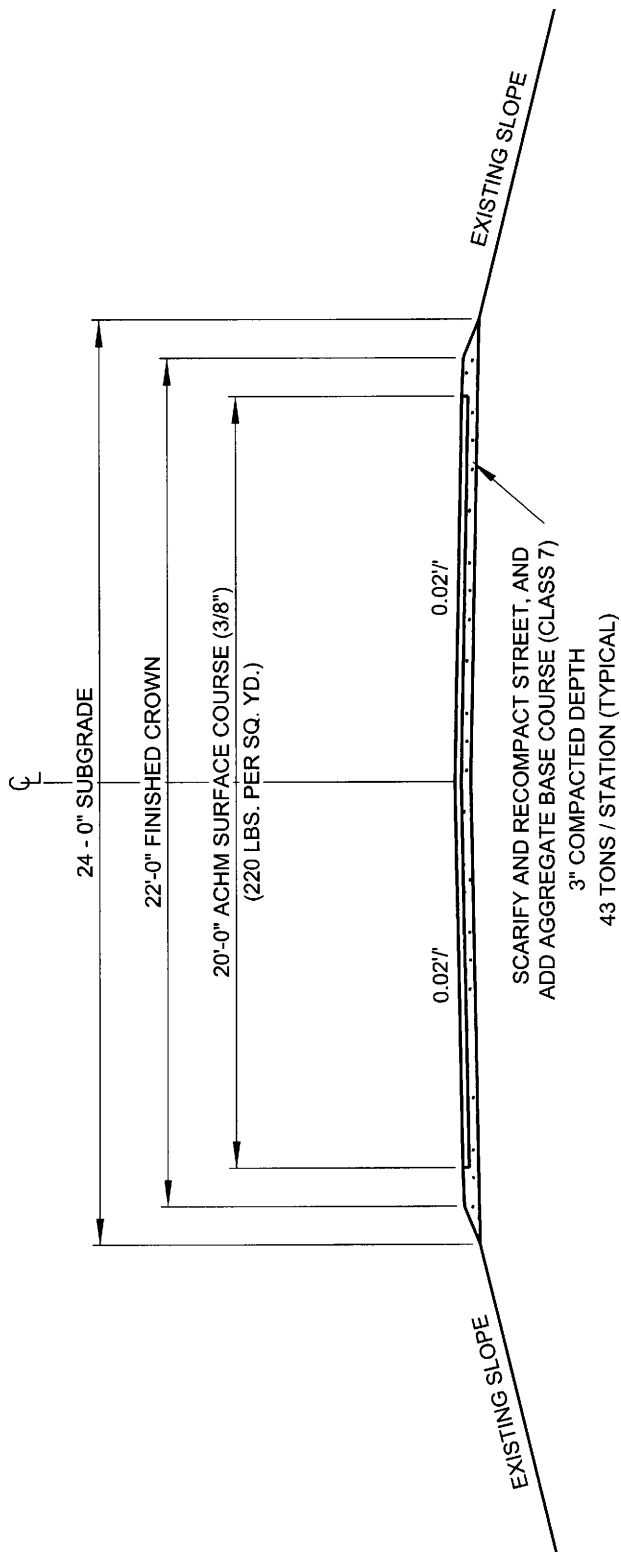


TYPICAL SECTIONS OF IMPROVEMENT

LEACHVILLE

SECTION 9 - NELSON STREET - L.M. 0.08 TO 0.13

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.

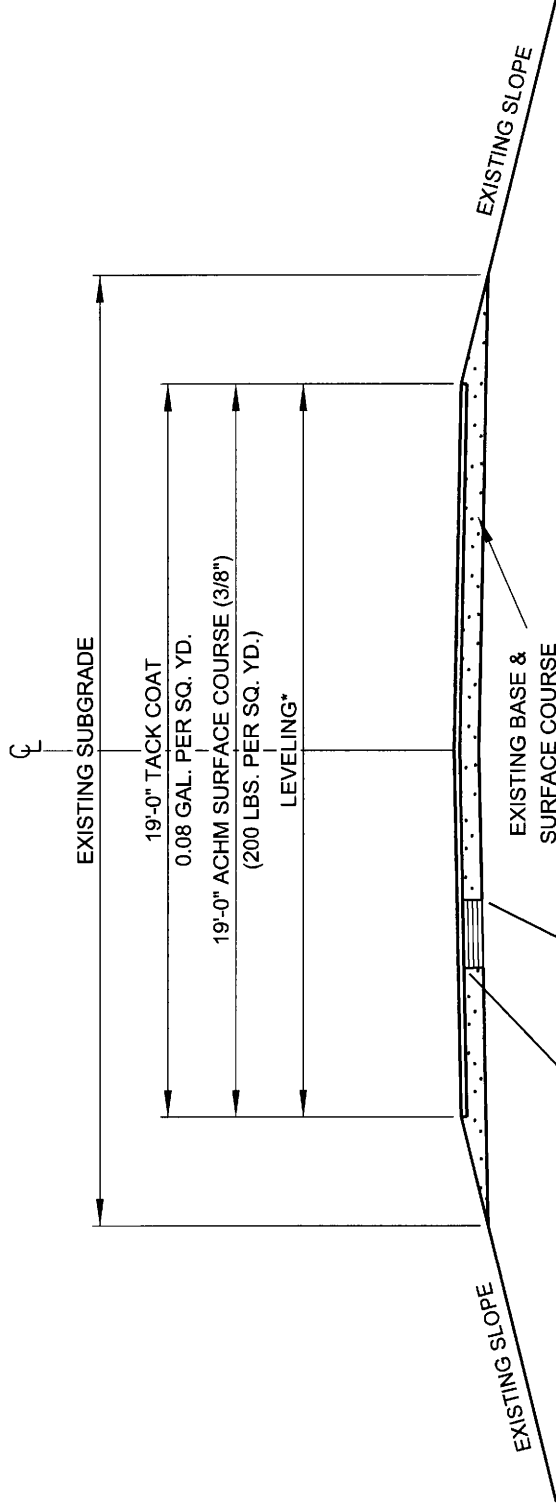


TYPICAL SECTIONS OF IMPROVEMENT

LEACHVILLE

SECTION 10 - NELSON STREET - L.M. 0.13 TO 0.19

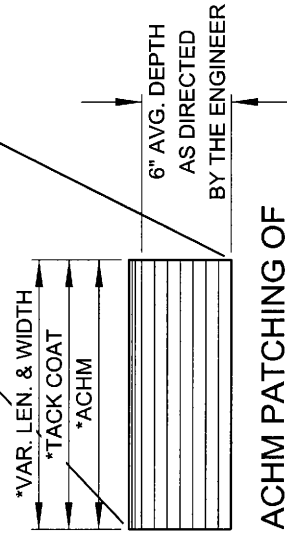
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

LEACHVILLE

SECTION 11 - NELSON STREET - L.M. 0.19 TO 0.68

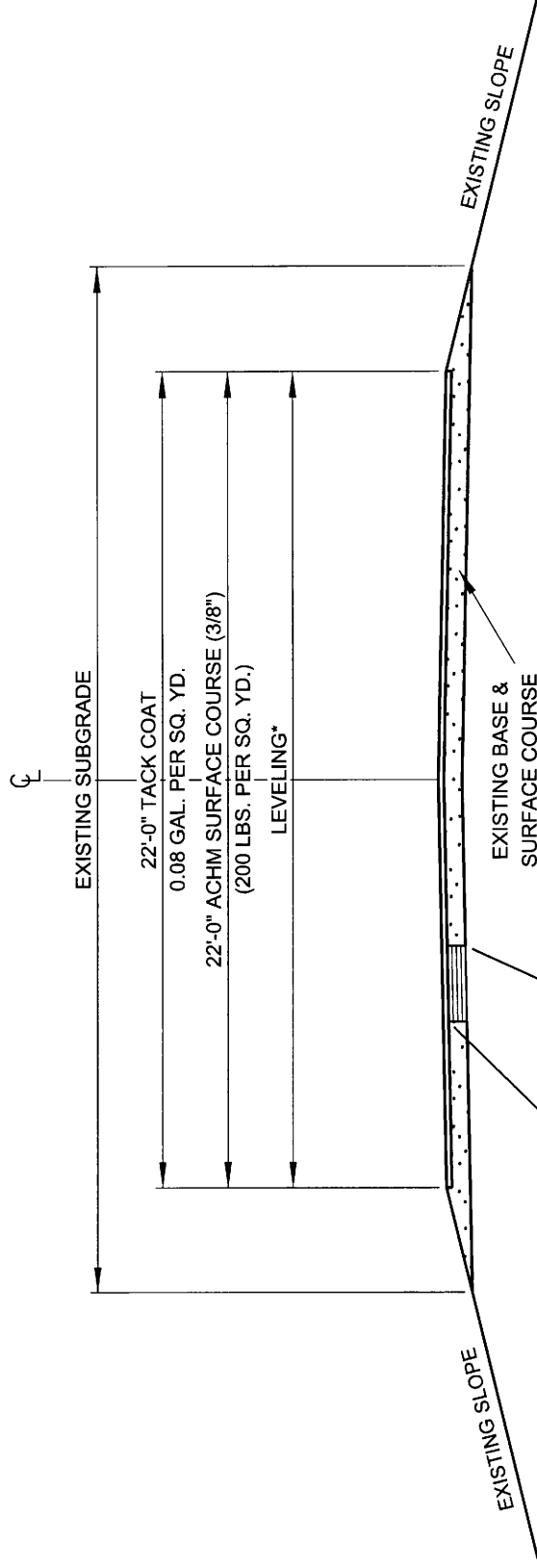


ACHM PATCHING OF EXISTING ROADWAY

PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
IN SECTION 415 OF THE STANDARD
SPECIFICATIONS FOR HIGHWAY
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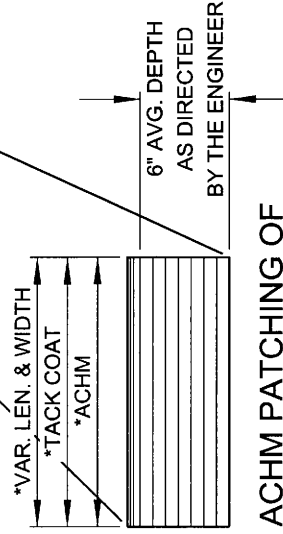


TYPICAL SECTIONS OF IMPROVEMENT

LEACHVILLE

SECTION 13 - NELSON STREET - L.M. 0.87 TO 1.01

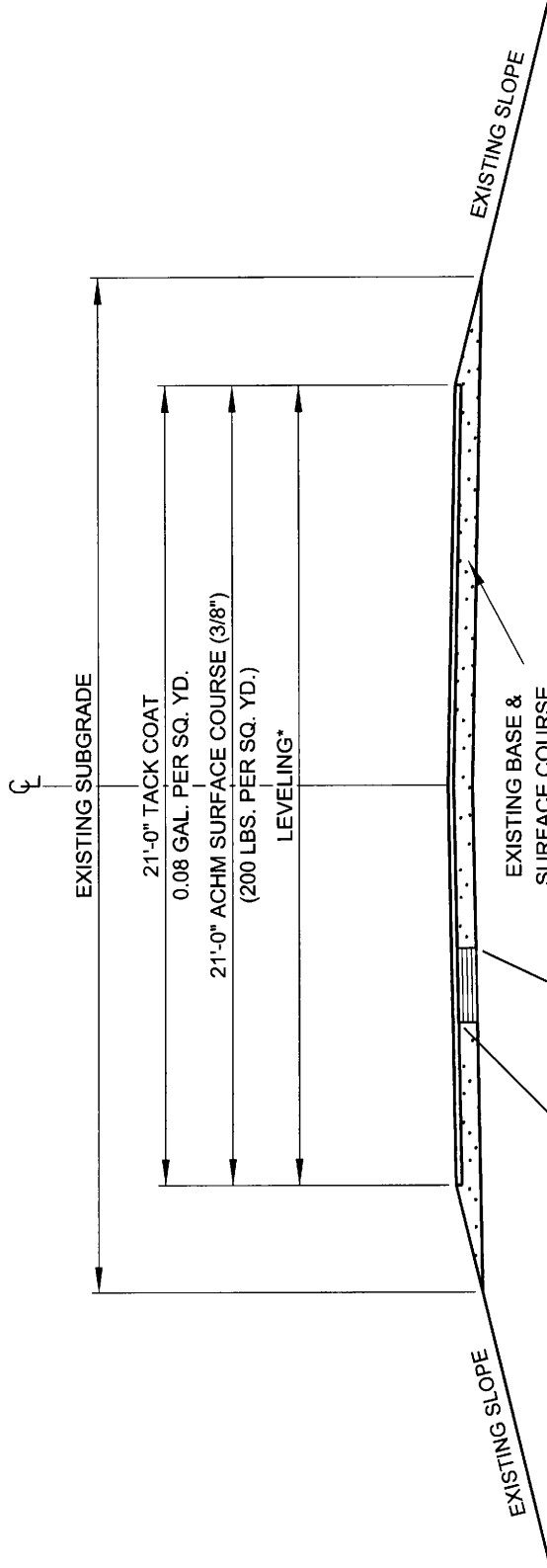
SECTION 14 - DOC RODMAN STREET - L.M. 1.01 TO 1.41



**ACHM PATCHING OF
EXISTING ROADWAY**
PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
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CONSTRUCTION.

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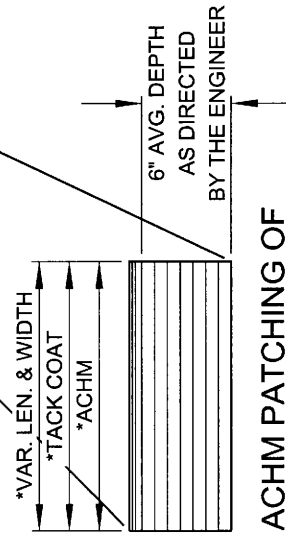
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

MONETTE

SECTION 15 - MAIN STREET - L.M. 0.00 TO 0.25

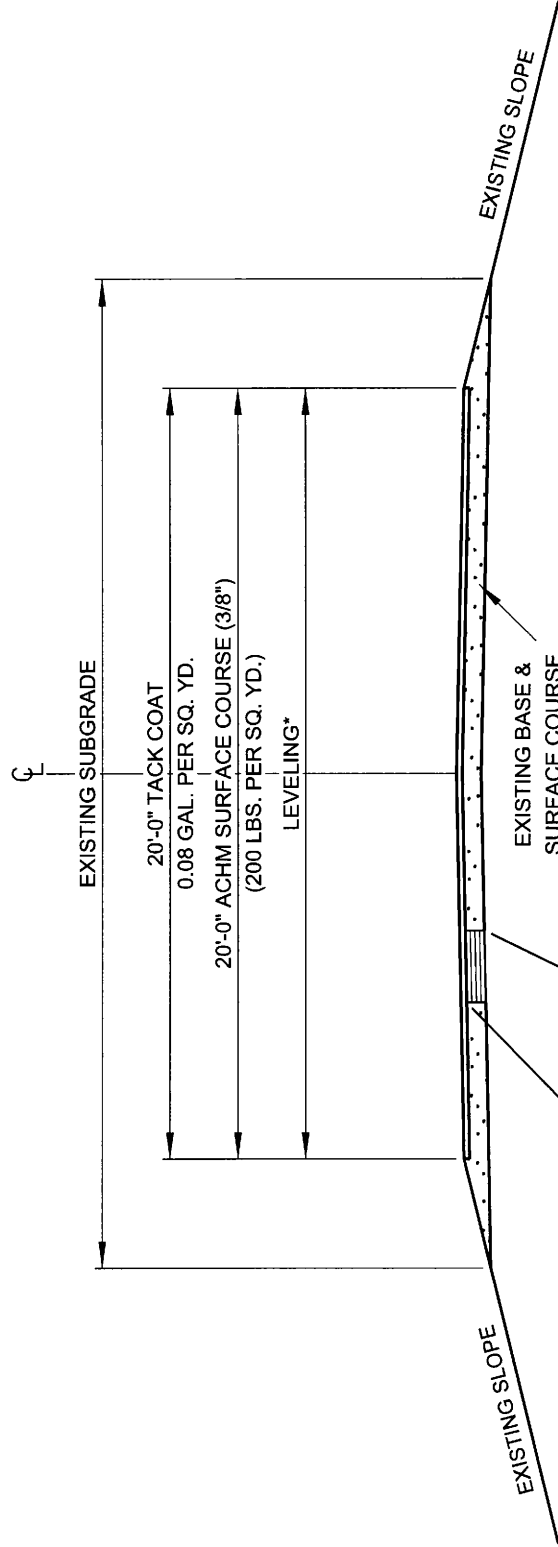


ACHM PATCHING OF EXISTING ROADWAY

PAY ITEMS AND CONSTRUCTION
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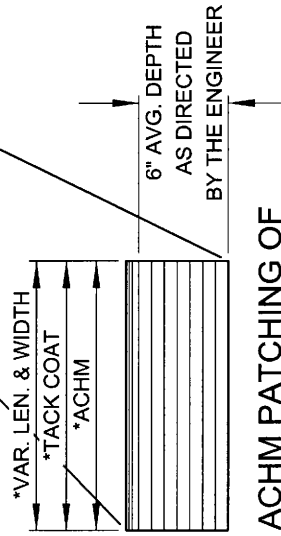
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

MONETTE

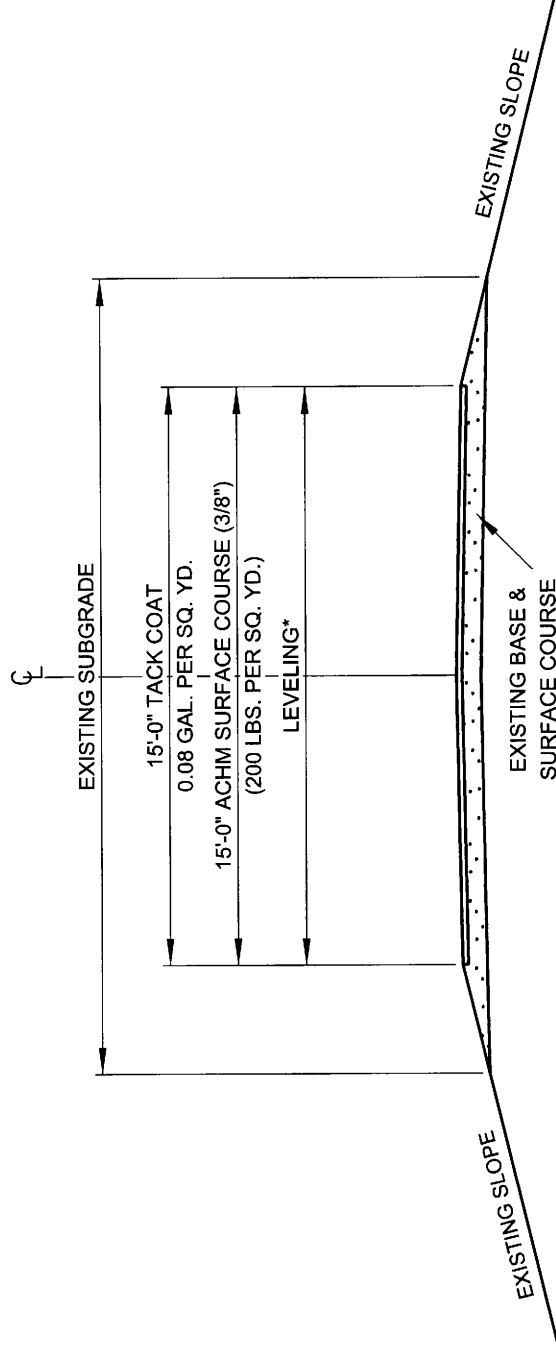
SECTION 16 - TEXIE AVENUE - L.M. 0.00 TO 0.51



**ACHM PATCHING OF
EXISTING ROADWAY**
PAY ITEMS AND CONSTRUCTION
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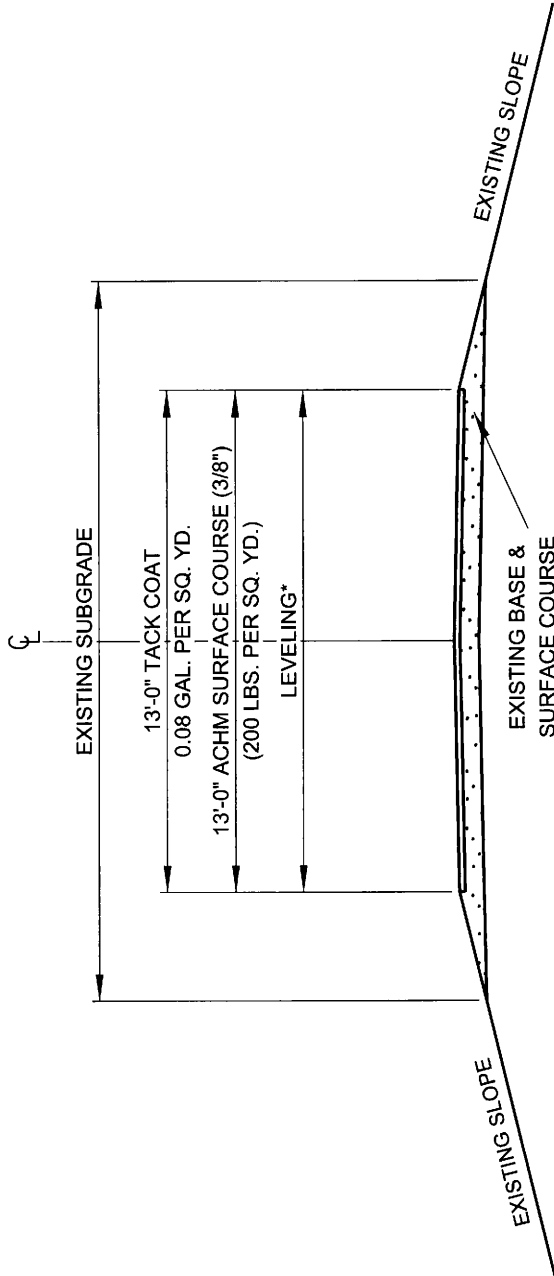
TYPICAL SECTIONS OF IMPROVEMENT

MONETTE

SECTION 17 - TEXIE AVENUE - L.M. 0.51 TO 0.56

* LOCATION AND APPLICATION RATES
ARE AT THE DIRECTION OF THE
ENGINEER. SEE QUANTITY SHEET FOR
ESTIMATED AMOUNTS.

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



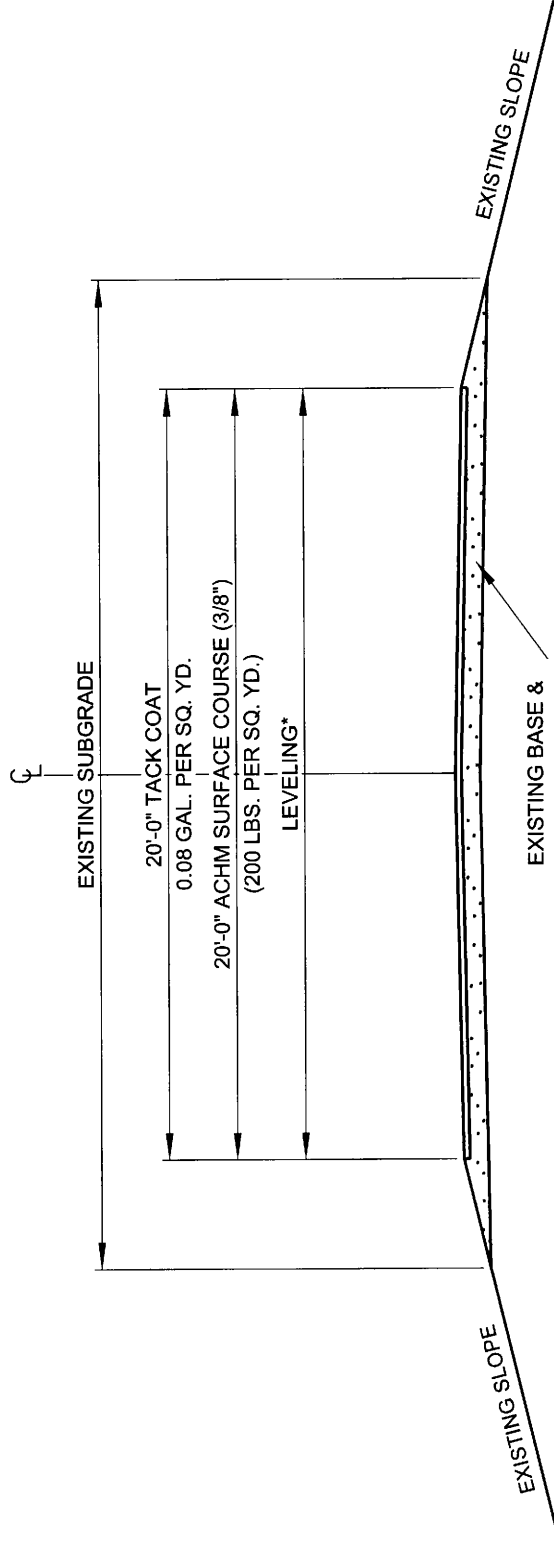
TYPICAL SECTIONS OF IMPROVEMENT

MONETTE

SECTION 18 - TEXIE AVENUE - L.M. 0.56 TO 0.62

* LOCATION AND APPLICATION RATES
ARE AT THE DIRECTION OF THE
ENGINEER. SEE QUANTITY SHEET FOR
ESTIMATED AMOUNTS.

NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



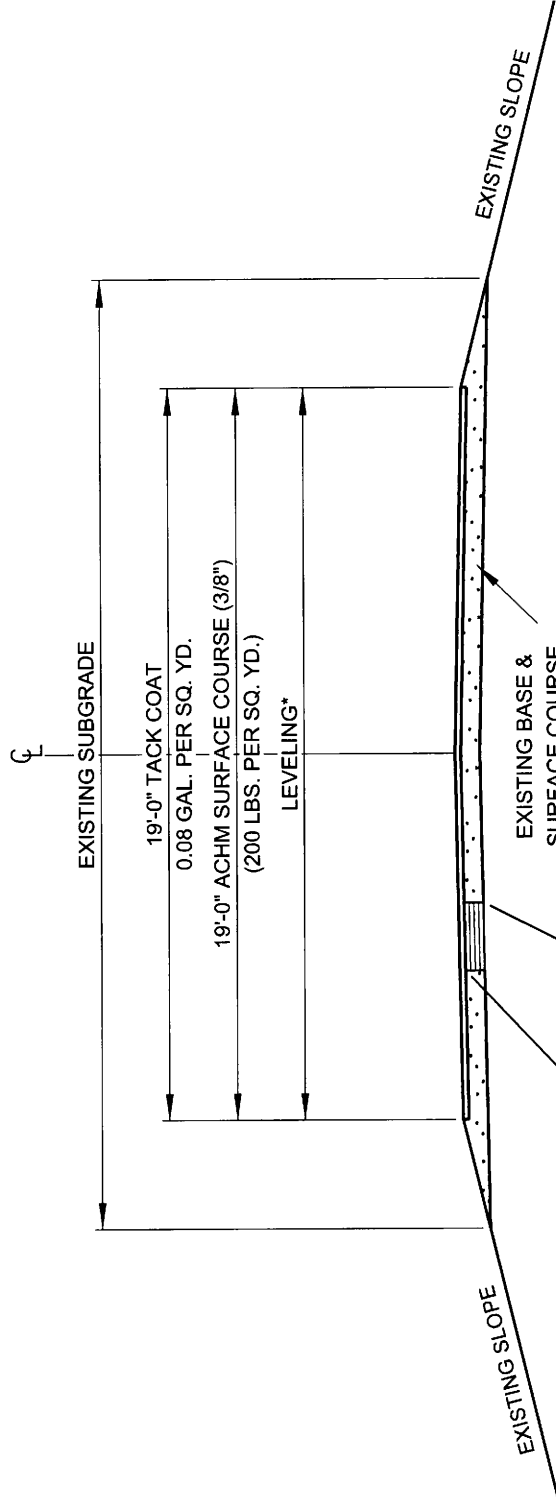
TYPICAL SECTIONS OF IMPROVEMENT

MONETTE

SECTION 19 - CARRUTHERS STREET - L.M. 0.62 TO 0.74

* LOCATION AND APPLICATION RATES
ARE AT THE DIRECTION OF THE
ENGINEER. SEE QUANTITY SHEET FOR
ESTIMATED AMOUNTS.

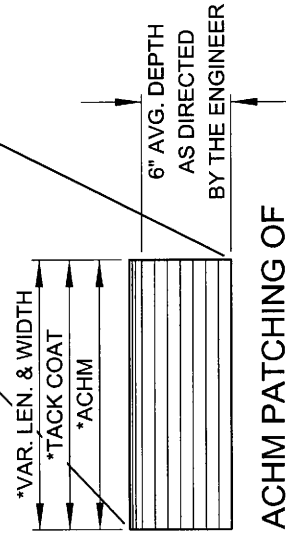
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL SECTIONS OF IMPROVEMENT

MONETTE

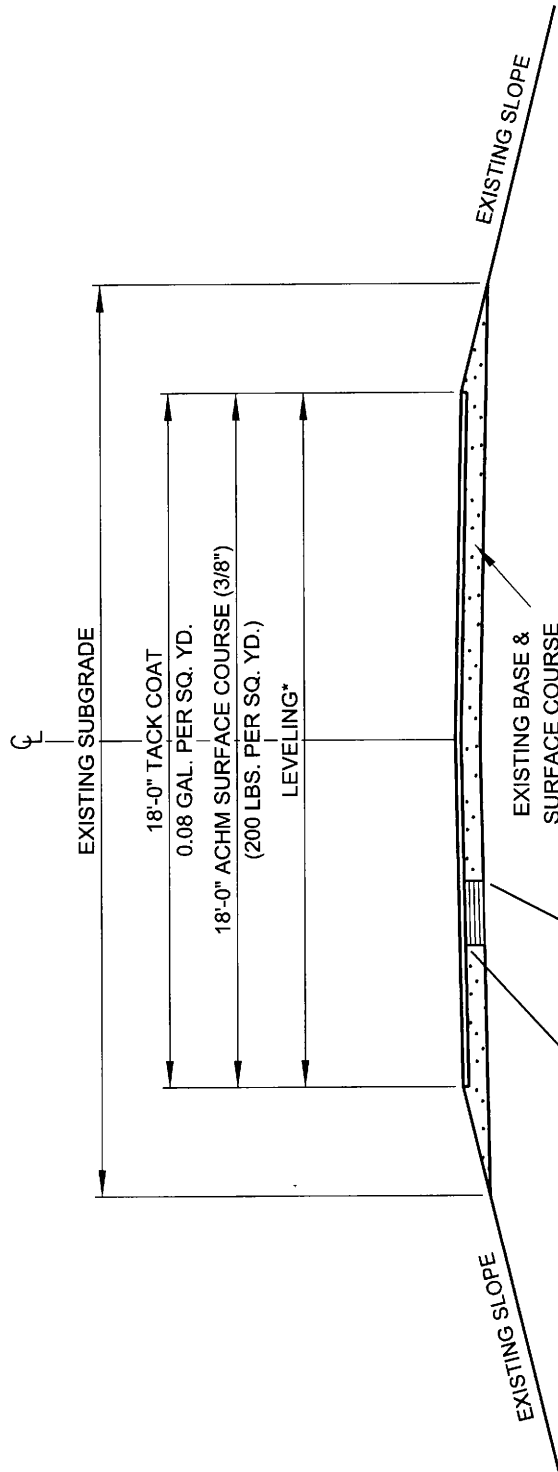
SECTION 20 - N. & S. WILLIAMS STREET - L.M. 0.00 TO 0.85



ACHM PATCHING OF
EXISTING ROADWAY
PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
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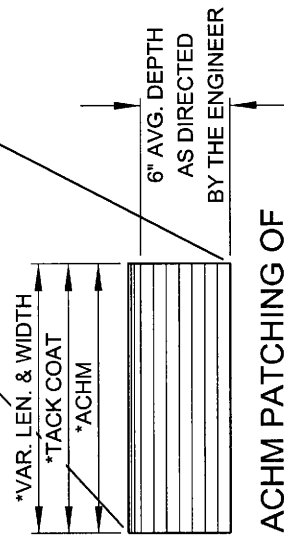
NOTE: DETAILS MAY BE MODIFIED TO MEET LOCAL
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TYPICAL SECTIONS OF IMPROVEMENT

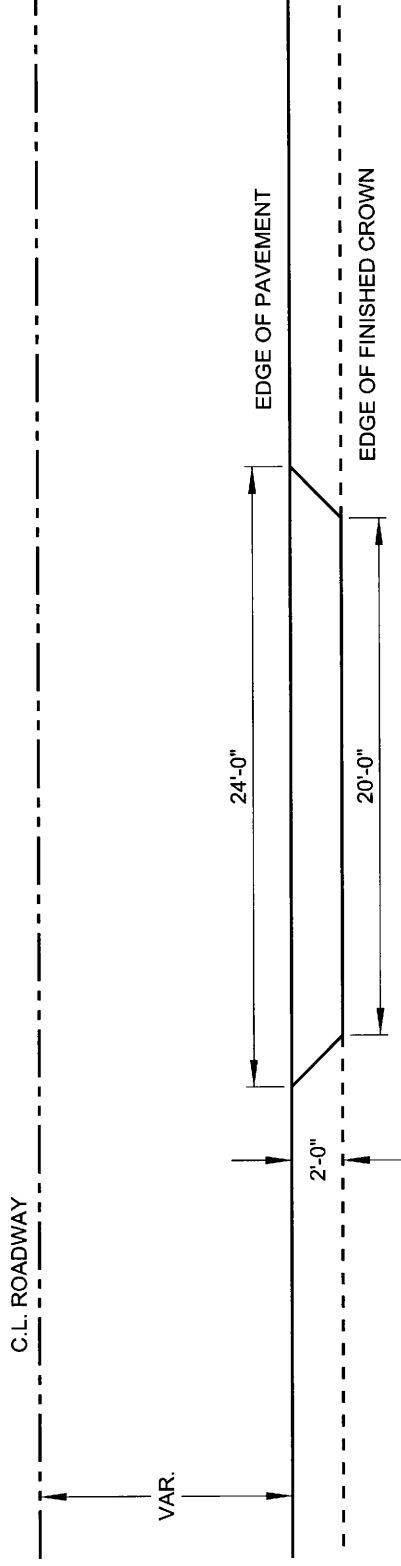
MONETTE

SECTION 21 - S. HALE STREET - L.M. 0.00 TO 0.13



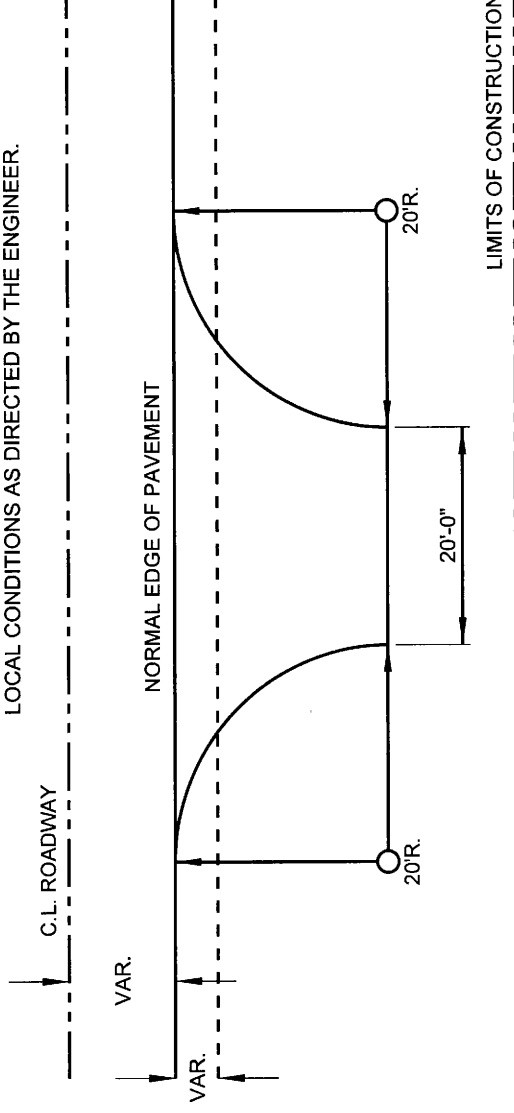
**ACHM PATCHING OF
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PAY ITEMS AND CONSTRUCTION
REQUIREMENTS ARE AS DEFINED
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TYPICAL PRIVATE ENTRANCE
ADDITIONAL SURFACING AREA = 4.9 SQ. YDS.

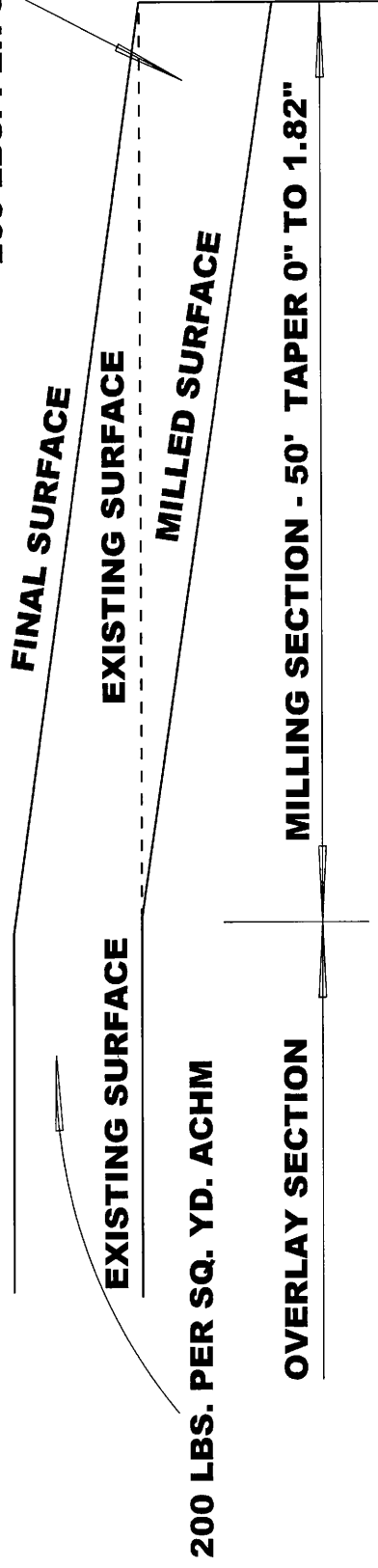
NOTE: DIMENSIONS MAY BE MODIFIED TO MEET
 LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.



TYPICAL CITY TURNOUTS
ADDITIONAL SURFACING AREA = 63.5 SQ. YDS.

FINAL SURFACE

200 LBS. PER SQ. YD. ACHM



**BEGIN SECTION
END SECTION
OR EXCEPTIONS**

PROFILE VIEW

NOT TO SCALE

PAVEMENT TRANSITION DETAILS FOR COLD MILLING

SECTIONS 5, 6, 15, 20, & 21

LOCATIONS

- L.M. 0.00 TO 0.01 - SECTION 5
- L.M. 0.17 TO 0.18 - SECTION 6
- L.M. 0.11 TO 0.12 - SECTION 15
- L.M. 0.13 TO 0.14 - SECTION 15
- L.M. 0.32 TO 0.33 - SECTION 20
- L.M. 0.34 TO 0.35 - SECTION 20
- L.M. 0.00 TO 0.01 - SECTION 21

**NOTE: DIMENSIONS ARE APPROXIMATED AND MAY BE
MODIFIED AS DIRECTED BY THE ENGINEER.**

**NOTE: FOR COLD MILLING ASPHALT PAVEMENT
TRANSITION, TAPER 50' OF FINAL SURFACE
TO CREATE A 1.82" PAVING NOTCH, AT
VARIOUS LOCATIONS, AS SHOWN ABOVE.
OVERLAY MILLED AREAS USING 200 LBS.
PER SQ. YD. OF ACHM.**

**NOTE: MATERIAL PRODUCED FROM COLD MILLING
ASPHALT PAVEMENT SHALL REMAIN THE
PROPERTY OF THE CONTRACTOR.**

FINAL SURFACE

200 LBS. PER SQ. YD. ACHM

EXISTING SURFACE

FINAL SURFACE

EXISTING SURFACE

**MILLED SURFACE
VARIABLE**

200 LBS. PER SQ. YD. ACHM

MILLING SECTION - 6' TAPER 0" TO 1.82"

PROFILE VIEW

NOT TO SCALE

1.82"

**FINAL SURFACE SHALL
BE FLUSH WITH
GUTTER ELEVATION**

**PAVEMENT TRANSITION
DETAILS FOR COLD MILLING**

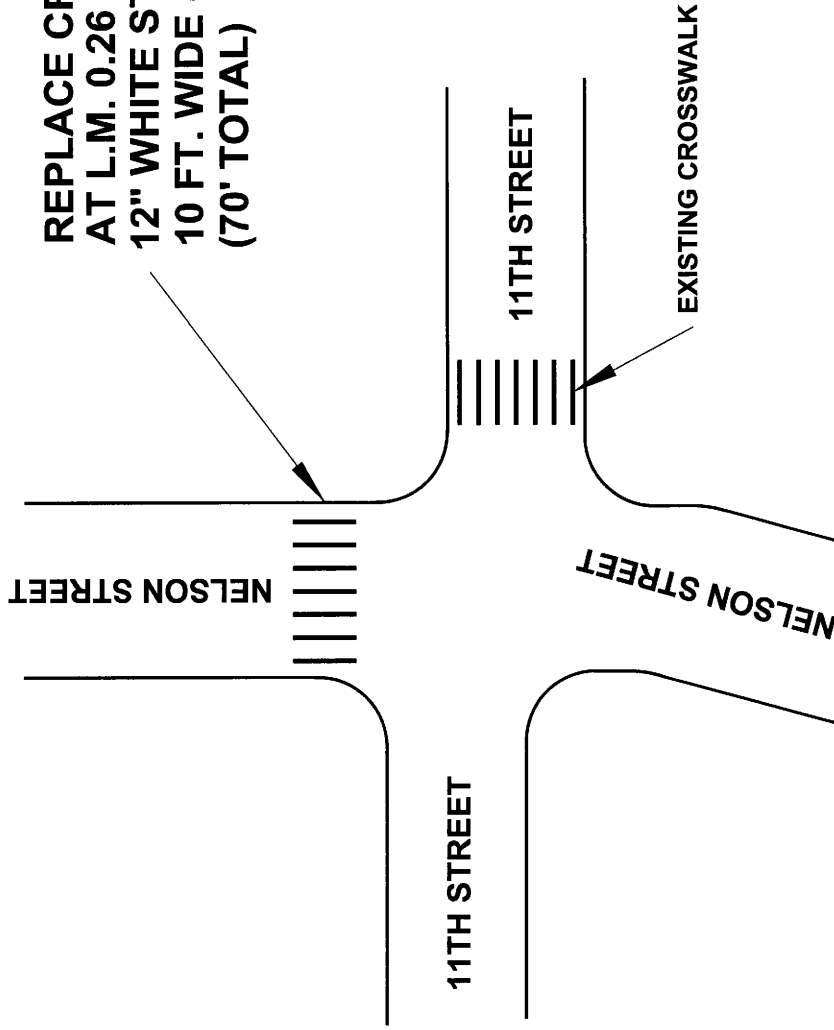
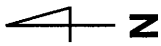
SECTION 5

LOCATION

L.M. 0.00 TO 0.12 - SECTION 5

**NOTE: TAPER 6' OF MILLED SURFACE TO CREATE
A 1.82" PAVING NOTCH, AT VARIOUS
SECTIONS ADJACENT TO CURB AND
GUTTER, AS SHOWN ABOVE. OVERLAY
MILLED AREAS USING 200 LBS. PER SQ. YD.
OF ACHM.**

**NOTE: MATERIAL PRODUCED FROM COLD MILLING
ASPHALT PAVEMENT SHALL REMAIN THE
PROPERTY OF THE CONTRACTOR.**



DETAIL OF CROSSWALK
SECTION 11 - NELSON STREET
AT L.M. 0.26
(NOT TO SCALE)

SEE STANDARD DRAWING PM-1 FOR ADDITIONAL INFORMATION

BASE AND SURFACING QUANTITIES - BONO (BOX 1 OF 2)

LOCATION	LOG MILE		LENGTH LIN. FT.	AGGREGATE BASE COURSE (CLASS 7)	TACK COAT				ACHM SURFACE COURSE (3/8")*			
	FROM	TO			TON	WIDTH	SQ. YD.	GAL.	WIDTH	SQ. YD.	TON	
	SECTION 1 - W. COLLEGE / SCHOOL / ARMOUR STREETS											
MAIN LANES	0.00	0.31	1637		18.00	3274.0	261.9	18.00	3274.0	327.4		
21 PRIVATE ENTRANCES						102.9	8.2		102.9	10.3		
1 CITY STREET						63.5	5.1		63.5	6.4		
AT W. COLLEGE/SCHOOL STREETS			260		2.00	57.8	4.6	2.00	57.8	5.8		
LEVELING							52.5			35.0		
SECTION 2 - ELIZABETH STREET												
MAIN LANES	0.00	0.50	2640		16.00	4693.3	375.5	16.00	4693.3	469.3		
34 PRIVATE ENTRANCES						166.6	13.3		166.6	16.7		
LEVELING							67.5			45.0		
SECTION 3 - CR 100												
MAIN LANES	0.00	0.17	898	871.1				20.00	1995.6	219.5		
SHOULDER	0.00	0.17	898	26.9								
9 PRIVATE ENTRANCES				15.3					44.1	4.9		
SUBTOTALS (BOX 1 OF 2):				913.3			788.6			1140.3		

BASIS OF ESTIMATE:

AGGREGATE BASE COURSE (CLASS 7) (SECTION 3) _____ 97.0 TON PER STATION
 AGGREGATE BASE COURSE (CLASS 7) FOR SHOULDERS _____ 3.0 TON PER STATION
 TACK COAT _____ 0.08 GAL. PER SQ. YD.
 ACHM SURFACE COURSE (3/8") (SECTIONS 1 & 2) _____ 200 POUND PER SQ. YD.
 ACHM SURFACE COURSE (3/8") (SECTION 3) _____ 220 POUND PER SQ. YD.

***Nmax=115**

VOLUME CONTROL:

ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") _____ 5.5%
 MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8") _____ 94.5%

BASE AND SURFACING QUANTITIES - BONO (BOX 2 OF 2)

LOCATION	LOG MILE		LENGTH LIN. FT.	AGGREGATE BASE COURSE (CLASS 7) TON	TACK COAT			ACHM SURFACE COURSE (3/8")*		
	FROM	TO			WIDTH	SQ. YD.	GAL.	WIDTH	SQ. YD.	TON
SECTION 4 - REDWOOD DRIVE										
MAIN LANES	0.00	0.38	2006	1945.8				20.00	4457.8	490.4
SHOULDERS	0.00	0.38	2006	60.2						
32 PRIVATE ENTRANCES				54.4					156.8	17.2
SECTION 5 - WOODLANE TRAIL										
MAIN LANES	0.00	0.12	634		21.00	1479.3	118.3	21.00	1479.3	147.9
3 PRIVATE ENTRANCES						14.7	1.2		14.7	1.5
1 CITY STREET						63.5	5.1		63.5	6.4
PARKING LOT			200		2.00	44.4	3.6	21.00	44.4	4.4
LEVELING							67.5			45.0
SECTION 6 - WOODLANE TRAIL										
MAIN LANES	0.12	0.18	317		21.00	739.7	59.2	21.00	739.7	74.0
3 PRIVATE ENTRANCES						14.7	1.2		14.7	1.5
1 CITY STREET						63.5	5.1		63.5	6.4
LEVELING							30.0			20.0
SUBTOTALS (BOX 2 OF 2):				2060.4			291.2			814.7
TOTALS (BONO):				2973.7			1079.8			1955.0
USE:				2974			1080			1955

BASIS OF ESTIMATE:

AGGREGATE BASE COURSE (CLASS 7) (SECTION 4) _____ 97.0 TON PER STATION
 AGGREGATE BASE COURSE (CLASS 7) FOR SHOULDERS _____ 3.0 TON PER STATION
 TACK COAT _____ 0.08 GAL. PER SQ. YD.
 ACHM SURFACE COURSE (3/8") (SECTION 4) _____ 220 POUND PER SQ. YD.
 ACHM SURFACE COURSE (3/8") (SECTIONS 5 & 6) _____ 200 POUND PER SQ. YD.

*Nmax=115

VOLUME CONTROL:

ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") _____ 5.5%
 MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8") _____ 94.5%

BASE AND SURFACING QUANTITIES - LEACHVILLE (BOX 1 OF 2)

LOCATION	LOG MILE		LENGTH	AGGREGATE BASE COURSE (CLASS 7)	TACK COAT				ACHM SURFACE COURSE (3/8")*			
	FROM	TO			LIN. FT.	TON	WIDTH	SQ. YD.	GAL.	WIDTH	SQ. YD.	TON
SECTION 7 - LACEY STREET												
MAIN LANES	0.00	0.22	1162		28.00	3615.1	289.2	28.00	3615.1	361.5		
23 PRIVATE ENTRANCES						112.7	9.0		112.7	11.3		
1 CITY STREET						63.5	5.1		63.5	6.4		
LEVELING							187.5			125.0		
SECTION 8 - MUSTANG ROAD / NELSON STREET												
MAIN LANES	0.00	0.08	422		20.00	937.8	75.0	20.00	937.8	93.8		
1 PRIVATE ENTRANCE						4.9	0.4		4.9	0.5		
PARKING LOT OF SCHOOL			220		2.00	48.9	3.9	2.00	48.9	4.9		
LEVELING							75.0			50.0		
SECTION 9 - NELSON STREET												
MAIN LANES	0.08	0.13	264	237.6				20.00	586.7	64.5		
SHOULDERS	0.08	0.13	264	7.9								
3 PRIVATE ENTRANCES				5.1					14.7	1.6		
PARKING LOT OF SCHOOL			310	24.2	2.00			2.00	68.9	7.6		
SECTION 10 - NELSON STREET												
MAIN LANES	0.13	0.19	317	136.3	20.00			20.00	704.4	77.5		
1 PRIVATE ENTRANCE				1.7					4.9	0.5		
1 CITY STREET				11.1					63.5	7.0		
SUBTOTALS (BOX 1 OF 2):				423.9			645.1			812.1		

BASIS OF ESTIMATE:

AGGREGATE BASE COURSE (CLASS 7) (SECTION 9) 90.0 TON PER STATION
 AGGREGATE BASE COURSE (CLASS 7) (SECTION 10) 43.0 TON PER STATION
 AGGREGATE BASE COURSE (CLASS 7) FOR SHOULDERS 3.0 TON PER STATION
 TACK COAT 0.08 GAL. PER SQ. YD.
 ACHM SURFACE COURSE (3/8") (SECTIONS 7 & 8) 200 POUND PER SQ. YD.
 ACHM SURFACE COURSE (3/8") (SECTIONS 9 & 10) 220 POUND PER SQ. YD.

***Nmax=115**

VOLUME CONTROL:

ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") 5.5%
 MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8") 94.5%

BASE AND SURFACING QUANTITIES - LEACHVILLE (BOX 2 OF 2)

LOCATION	LOG MILE		LENGTH LIN. FT.	AGGREGATE BASE COURSE (CLASS 7)	TACK COAT			ACHM SURFACE COURSE (3/8")*		
	FROM	TO			WIDTH	SQ. YD.	GAL.	WIDTH	SQ. YD.	TON
SECTION 11 - NELSON STREET										
MAIN LANES	0.19	0.68	2537		19.00	5355.9	428.5	19.00	5355.9	535.6
(50' EXCEPTION @ 11TH STREET)										
55 PRIVATE ENTRANCES						269.5	21.6		269.5	27.0
11 CITY STREETS						698.5	55.9		698.5	69.9
LEVELING							157.5			105.0
SECTION 12 - NELSON STREET										
MAIN LANES	0.68	0.86	950		20.00	2111.1	168.9	20.00	2111.1	211.1
20 PRIVATE ENTRANCES						98.0	7.8		98.0	9.8
2 CITY STREETS						127.0	10.2		127.0	12.7
LEVELING							60.0			40.0
SECTION 13 - NELSON STREET										
MAIN LANES	0.87	1.01	739		22.00	1806.4	144.5	22.00	1806.4	180.6
10 PRIVATE ENTRANCES						49.0	3.9		49.0	4.9
2 CITY STREETS						127.0	10.2		127.0	12.7
BEGINNING OF SECTION			355		2.0	78.9	6.3	2.0	78.9	7.9
LEVELING							37.5			25.0
SECTION 14 - DOC RODMAN STREET										
MAIN LANES	1.01	1.41	2082		22.00	5089.3	407.1	22.00	5089.3	508.9
(30' EXCEPTION @ HWY. 77)										
15 PRIVATE ENTRANCES						73.5	5.9		73.5	7.4
4 CITY STREETS						254.0	20.3		254.0	25.4
BEGIN OF SECTION			1350		2.0	300.0	24.0	2.0	300.0	30.0
LEVELING							187.5			125.0
SUBTOTALS (BOX 2 OF 2):							1757.6			1938.9
TOTALS (LEACHVILLE):				423.9			2402.7			2751.0

USE:

BASIS OF ESTIMATE:

TACK COAT

ACHM SURFACE COURSE (3/8")

0.08 GAL. PER SQ. YD.

200 POUND PER SQ. YD.

***Nmax=115**

VOLUME CONTROL:

ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8")

5.5%

MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")

94.5%

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SHEET 35 OF 48

BASE AND SURFACING QUANTITIES - MONETTE (BOX 1 OF 2)

LOCATION	LOG MILE		LENGTH	TACK COAT			ACHM SURFACE COURSE (3/8")*		
	FROM	TO		LIN. FT.	WIDTH	SQ. YD.	GAL.	WIDTH	SQ. YD.
SECTION 15 - MAIN STREET									
MAIN LANES	0.00	0.25	1276	21.00	2977.3	238.2	21.00	2977.3	297.7
(44' EXCEPTION @ HWY. 18B)									
9 PRIVATE ENTRANCES					44.1	3.5		44.1	4.4
LEVELING						45.0			30.0
SECTION 16 - TEXIE AVENUE									
MAIN LANES	0.00	0.51	2649	20.00	5886.7	470.9	20.00	5886.7	588.7
(44' EXCEPTION @ HWY. 139)									
32 PRIVATE ENTRANCES					156.8	12.5		156.8	15.7
9 CITY STREETS					571.5	45.7		571.5	57.2
LEVELING						90.0			60.0
SECTION 17 - TEXIE AVENUE									
MAIN LANES	0.51	0.56	264	15.00	440.0	35.2	15.00	440.0	44.0
4 PRIVATE ENTRANCES					19.6	1.6		19.6	2.0
2 CITY STREETS					127.0	10.2		127.0	12.7
LEVELING						7.5			5.0
SECTION 18 - TEXIE AVENUE									
MAIN LANES	0.56	0.62	317	13.00	457.9	36.6	13.00	457.9	45.8
2 PRIVATE ENTRANCES					9.8	0.8		9.8	1.0
2 CITY STREETS					127.0	10.2		127.0	12.7
LEVELING						7.5			5.0
SUBTOTALS (BOX 1 OF 2):						1015.4			1181.9

BASIS OF ESTIMATE:

TACK COAT _____ 0.08 GAL. PER SQ. YD.
 ACHM SURFACE COURSE (3/8") _____ 200 POUND PER SQ. YD.

***Nmax=115**

VOLUME CONTROL:

ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") _____ 5.5%
 MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8") _____ 94.5%

BASE AND SURFACING QUANTITIES - MONTETTE (BOX 2 OF 2)

LOCATION	LOG MILE		LENGTH	TACK COAT				ACHM SURFACE COURSE (3/8")*			
	FROM	TO		LIN. FT.	WIDTH	SQ. YD.	GAL.	WIDTH	SQ. YD.	TON	
	SECTION 19 - CARRUTHERS STREET										
MAIN LANES	0.62	0.74	634	20.00	1408.9	112.7	20.00	1408.9	140.9		
10 PRIVATE ENTRANCES					49.0	3.9		49.0	4.9		
LEVELING						30.0			20.0		
SECTION 20 - N. & S. WILLIAMS STREET											
MAIN LANES	0.00	0.85	4424	19.00	9339.6	747.2	19.00	9339.6	934.0		
(44' EXCEPTION @HWY. 18B)											
(20' EXCEPTION @ TEXIE AVENUE)											
53 PRIVATE ENTRANCES					259.7	20.8		259.7	26.0		
13 CITY STREETS					825.5	66.0		825.5	82.6		
LEVELING						142.5			95.0		
SECTION 21 - S. HALE STREET											
MAIN LANES	0.00	0.13	686	18.00	1372.0	109.8	18.00	1372.0	137.2		
7 PRIVATE ENTRANCES					34.3	2.7		34.3	3.4		
LEVELING						22.5			15.0		
SUBTOTALS (BOX 2 OF 2):						1258.1			1459.0		
TOTALS (MONETTE):						2273.5			2640.9		
USE:						2274			2641		

BASIS OF ESTIMATE:

TACK COAT _____ 0.08 GAL. PER SQ. YD.
 ACHM SURFACE COURSE (3/8") _____ 200 POUND PER SQ. YD.

***Nmax=115**

VOLUME CONTROL:

ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") _____ 5.5%
 MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8") _____ 94.5%

ACHM PATCHING OF EXISTING ROADWAY - BONO

LOCATION	LOG MILE		LENGTH	ACHM PATCHING OF EXISTING ROADWAY*
	FROM	TO		
SECTION 1 - W. COLLEGE / SCHOOL / ARMOUR STREETS				
MAIN LANES	0.00	0.31	1637	25.0
SECTION 2 - ELIZABETH STREET				
MAIN LANES	0.00	0.50	2640	5.0
SECTION 5 - WOODLANE TRAIL				
MAIN LANES	0.00	0.12	634	5.0
SECTION 6 - WOODLANE TRAIL				
MAIN LANES	0.12	0.18	317	5.0
TOTAL (BONO):				40.0
USE:				40

*QUANTITY ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ACHM PATCHING OF EXISTING ROADWAY - LEACHVILLE

LOCATION	LOG MILE		LENGTH	ACHM PATCHING OF EXISTING ROADWAY*
	FROM	TO		
SECTION 7 - LACEY STREET				
MAIN LANES	0.00	0.22	1162	40.0
SECTION 8 - MUSTANG ROAD / NELSON STREET				
MAIN LANES	0.00	0.08	422	50.0
SECTION 11 - NELSON STREET				
MAIN LANES	0.19	0.68	2537	50.0
SECTION 12 - NELSON STREET				
MAIN LANES	0.68	0.86	950	20.0
SECTION 13 - NELSON STREET				
MAIN LANES	0.87	1.01	739	50.0
SECTION 14 - DOC RODMAN STREET				
MAIN LANES	1.01	1.41	2082	25.0
TOTAL (LEACHVILLE):				235.0
USE				235

*QUANTITY ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ACHM PATCHING OF EXISTING ROADWAY - MONETTE

LOCATION	LOG MILE		LENGTH	ACHM PATCHING OF EXISTING ROADWAY*
	FROM	TO		
SECTION 15 - MAIN STREET				
MAIN LANES	0.00	0.25	1276	10.0
SECTION 16 - TEXIE AVENUE				
MAIN LANES	0.00	0.51	2649	10.0
SECTION 20 - N. & S. WILLIAMS STREET				
MAIN LANES	0.00	0.85	4424	10.0
SECTION 21 - S. HALE STREET				
MAIN LANES	0.00	0.13	686	10.0
TOTAL (MONETTE):				40.0
USE:				40

*QUANTITY ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

COLD MILLING ASPHALT PAVEMENT - BONO

DESCRIPTION	LOG MILE		LENGTH		COLD MILLING ASPHALT PAVEMENT	
	FROM	TO	LIN. FT.	WIDTH	SQ. YD.	
SECTION 5 - WOODLANE TRAIL						
BEGIN SECTION	0.00	0.01	50	21.00	116.7	
ENTIRE SECTION - 6' ON LEFT & RIGHT	0.01	0.12	581	12.00	774.4	
SECTION 6 - WOODLANE TRAIL						
END SECTION	0.17	0.18	50	21.00	116.7	
TOTAL (BONO):					1007.8	
USE:						1008

COLD MILLING ASPHALT PAVEMENT - MONETTE

DESCRIPTION	LOG MILE		LENGTH		COLD MILLING ASPHALT PAVEMENT	
	FROM	TO	LIN. FT.	WIDTH	SQ. YD.	
SECTION 15 - MAIN STREET						
AT HWY. 18B	0.11	0.12	50	21.00	116.7	
AT HWY. 18B	0.13	0.14	50	21.00	116.7	
SECTION 20 - N. & S. WILLIAMS STREET						
AT NORTH SIDE OF HWY. 18B	0.32	0.33	50	19.00	105.6	
AT SOUTH SIDE OF HWY. 18B	0.34	0.35	50	19.00	105.6	
SECTION 21 - S. HALE STREET						
BEGIN SECTION	0.00	0.01	50	18.00	100.0	
TOTAL (MONETTE):					544.6	
USE:						545

SCARIFYING AND RECOMPACTING ROADWAY - LEACHVILLE

LOG MILE		LENGTH	SCARIFYING AND RECOMPACTING ROADWAY
FROM	TO	LIN. FT.	STATION
SECTION 10 - NELSON STREET			
0.13	0.19	317	3.17
TOTAL (LEACHVILLE):			3.17

USE:

3

QUANTITIES ESTIMATED. TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER. SEE SECTION 104.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

REFLECTORIZED PAINT PAVEMENT MARKING - LEACHVILLE

DESCRIPTION	LOG MILE		WHITE MARKING
	FROM	TO	12" LIN. FT.
SECTION 11 - NELSON STREET			
CROSSWALK	0.16	0.16	70
TOTAL (LEACHVILLE):			70
USE:			70

REFLECTORIZED PAINT PAVEMENT MARKING - MONETTE

DESCRIPTION	LOG MILE		YELLOW MARKING
	FROM	TO	4" LIN. FT.
SECTION 15 - MAIN STREET			
MAIN LANES - CONTINUOUS	0.00	0.25	2552
TOTAL (MONETTE):			2552
USE:			2552

THIS IS A LOW VOLUME ROAD AS DEFINED IN SECTION 604.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

STANDARD HIGHWAY SIGNS AND SUPPORT ASSEMBLIES - BONO

LOG MILE	SIDE	STANDARD SIGN NUMBER	SIGN AREA		SUPPORT ASSEMBLIES (TYPE C)	STANDARD DRAWING NUMBER
			SQ. FT.			
SECTION 2 - ELIZABETH STREET						
0.18	RIGHT & LEFT	OM-3 (OBJECT MARKER)	12.00*	2		SHS-1, SHS-2
TOTALS (BONO):			12.00	2		

ALL STANDARD SIGN BLANKS TO BE 0.080" THICK. REFER TO STANDARD DRAWING SHS-2 FOR CHANNEL POST SPlicing DETAILS.

LOG MILE LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

*TWO OM-3 SIGNS PLACED BACK-TO-BACK ON EACH SIDE OF SINGLE TYPE C SUPPORT ASSEMBLY.

TRAFFIC CONTROL DEVICES - BONO

LOCATION	ROAD WORK AHEAD (W20-1)		G20-2	
	NO.	SQ. FT.	NO.	SQ. FT.
SECTION 1 - W. COLLEGE / SCHOOL / ARMOUR STREETS				
BEGIN SECTION	1	16.00	1	8.00
END SECTION	1	16.00	1	8.00
SECTION 2 - ELIZABETH STREET				
BEGIN SECTION	1	16.00	1	8.00
SECTION 3 - CR 100				
BEGIN SECTION	1	16.00	1	8.00
SECTION 4 - REDWOOD DRIVE				
BEGIN SECTION	1	16.00	1	8.00
SECTION 5 - WOODLANE TRAIL				
BEGIN SECTION	1	16.00	1	8.00
SECTION 6 - WOODLANE TRIAL				
END SECTION	1	16.00	1	8.00
TOTALS:	7	112.00	7	56.00
TOTAL (BONO):				168.00

TRAFFIC CONTROL DEVICES - LEACHVILLE

LOCATION	ROAD WORK AHEAD (W20-1)		G20-2	
	NO.	SQ. FT.	NO.	SQ. FT.
SECTION 7 - LACEY STREET				
BEGIN SECTION	1	16.00	1	8.00
SECTION 8 - MUSTANG ROAD / NELSON STREET				
BEGIN SECTION	1	16.00	1	8.00
SECTION 12 - NELSON STREET				
END SECTION	1	16.00	1	8.00
SECTION 13 - NELSON STREET				
BEGIN SECTION	1	16.00		
SECTION 14 - DOC RODMAN STREET				
AT EACH SIDE OF HWY. 77	2	32.00		
END SECTION	1	16.00	1	8.00
TOTALS:	7	112.00	4	32.00
TOTAL (LEACHVILLE):				144.00

TRAFFIC CONTROL DEVICES - MONETTE

LOCATION	ROAD WORK AHEAD (W20-1)		G20-2	
	NO.	SQ. FT.	NO.	SQ. FT.
SECTION 15 - MAIN STREET				
BEGIN SECTION	1	16.00	1	8.00
AT EACH SIDE OF HWY. 18B	2	32.00		
SECTION 16 - W. TEXIE AVENUE				
BEGIN SECTION	1	16.00	1	8.00
AT EACH SIDE OF HWY. 139	2	32.00		
SECTION 19 - CARRUTHERS STREET				
END SECTION	1	16.00	1	8.00
SECTION 20 - N. & S. WILLIAMS STREET				
BEGIN SECTION	1	16.00	1	8.00
AT EACH SIDE OF HWY. 18B	2	32.00		
END SECTION	1	16.00	1	8.00
SECTION 21 - S. HALE STREET				
BEGIN SECTION	1	16.00	1	8.00
END SECTION	1	16.00	1	8.00
TOTALS:	13	208.00	7	56.00
TOTAL (MONETTE):				264.00

SUMMARY OF QUANTITIES

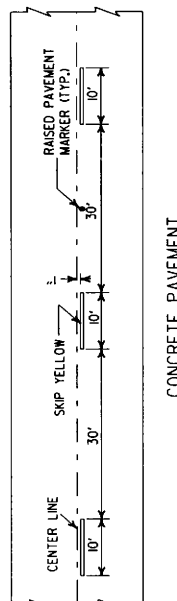
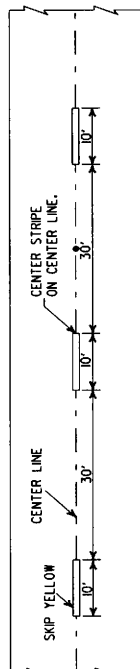
ITEM NO.	I T E M	CITY OF BONO CRAIGHEAD CO.	CITY OF LEACHVILLE MISSISSIPPI CO.	CITY OF MONETTE CRAIGHEAD CO.	TOTAL QUANTITY	UNIT
SP	SCARIFYING AND RECOMPACTING ROADWAY	0	3	0	3	STATION
SS & 303	AGGREGATE BASE COURSE (CLASS 7)	2974	424	0	3398	TON
SS & 401	TACK COAT	1080	2403	2274	5757	GAL.
SP, SS, & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	1847	2600	2496	6943	TON
SP, SS, & 407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8")	108	151	145	404	TON
412	COLD MILLING ASPHALT PAVEMENT	1008	0	545	1553	SQ. YD.
SP, SS, & 415	ACHM PATCHING OF EXISTING ROADWAY	40	235	40	315	TON
601	MOBILIZATION	0.35	0.35	0.30	1.00	LUMP SUM
603	MAINTENANCE OF TRAFFIC	0.35	0.35	0.30	1.00	LUMP SUM
SS & 604	SIGNS	168	144	264	576	SQ. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")	0	70	0	70	LIN. FT.
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (4")	0	0	2552	2552	LIN. FT.
SS & 726	STANDARD SIGN	12.00	0.00	0.00	12.00	SQ. FT.
729	CHANNEL POST SIGN SUPPORT (TYPE C)	2	0	0	2	EACH

REVISIONS

DATE	REVISION	SHEET NO.

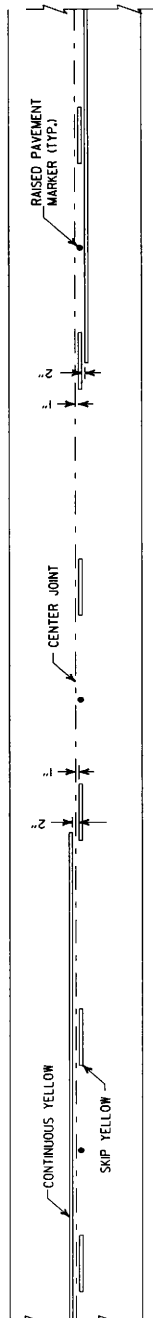
NOTES:

1. REFER TO THE STRIPING DETAILS FOR PAVEMENT MARKING LINE WIDTHS.
2. THIS DRAWING SHALL BE USED IN CONJUNCTION WITH THE LATEST REVISED ADDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
3. RAISED PAVEMENT MARKERS SHALL BE PLACED ON AN 80 FEET SPACING UNLESS OTHERWISE SHOWN IN THE PLANS.

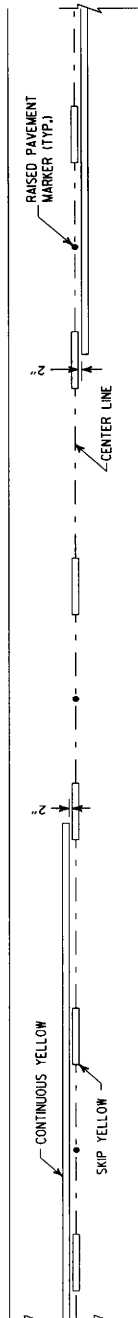


ASPHALT PAVEMENT

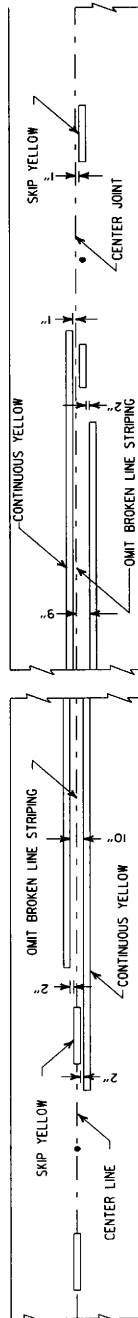
BROKEN LINE STRIPING



SOLID LINE STRIPING ON CONCRETE PAVEMENT



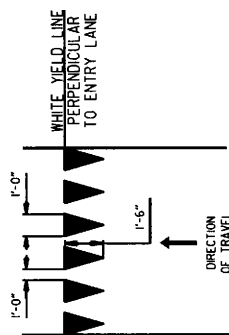
SOLID LINE STRIPING ON ASPHALT PAVEMENT



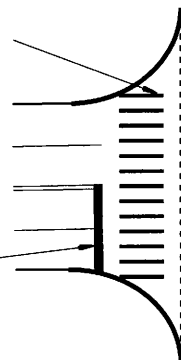
CONCRETE PAVEMENT

STRIPING AT ADJACENT NO PASSING LANES

12" CROSSWALK STRIPES
OFFSET STOPBAR 4'
FROM CROSSWALK
3 FT. MIN. FROM LANE EDGE

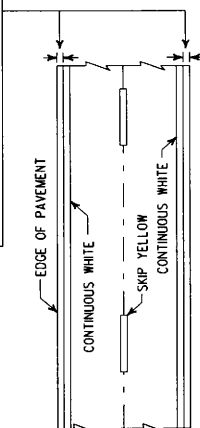


YIELD LINE DETAIL

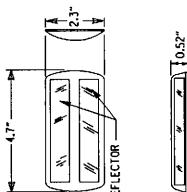


CROSSWALK AND STOPBAR DETAILS

2" FOR ASPHALT OR CONCRETE PAVEMENT
6" FOR BITUMINOUS SURFACE TREATMENT



PAVEMENT EDGE LINE MARKING



NOTE: THE RED LENS OF THE TYPE II MARKER SHALL FACE THE INCORRECT TRAFFIC MOVEMENT.

NOTE: DIMENSIONS SHOWN FOR RAISED PAVEMENT MARKERS ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR MARKERS WITH THE APPROVAL OF THE ENGINEER. REQUESTING ENGINEER SHALL BE RESPONSIBLE FOR THE MARKER'S QUALITY. MARKERS SHALL BE MADE BY REFERRING TO THE AUTO QUALIFIED PRODUCTS LIST.







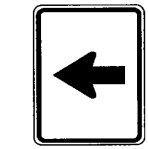


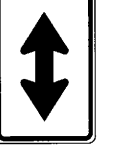







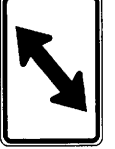



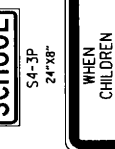

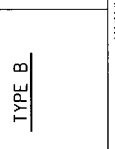
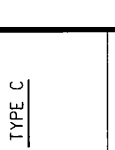
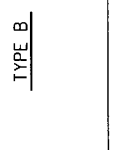

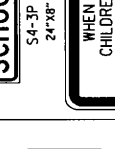
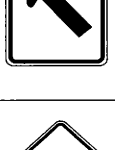





**DETAIL OF STANDARD
RAISED PAVEMENT MARKERS**

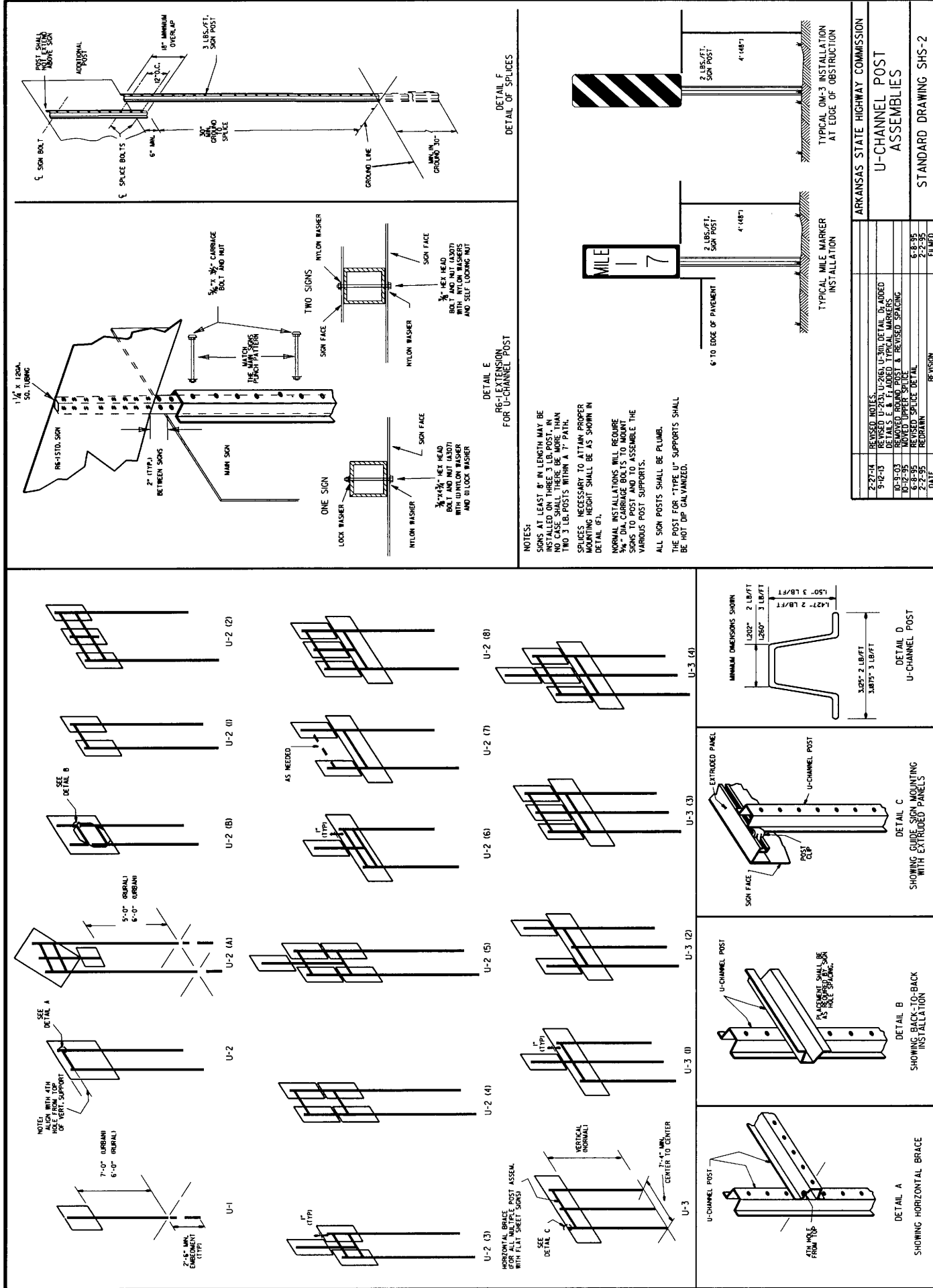
DATE	REVISION	REVISION	DATE
6-11-7	ADDED YIELD LINE DETAIL		
5-12-16	REVISED LINE WIDTHS, SPACING, & MARKER DETAIL		
9-12-13	REVISED DETAIL OF STANDARD RAISED PAVEMENT MARKERS		
8-17-10	REVISED GENERAL NOTES & REMOVED PLOTTABLE PAVEMENT MARKERS		
11-18-04	REVISED NOTE 2 & GENERAL REMOVED CROSSWALK & STOPBAR DETAILS		
8-22-02	ADDED CROSSWALK & STOPBAR DETAILS		
7-02-98	ADDED DETAILS OF STD. RAISED PAVEMENT MARKERS		
4-28-96	REV. NOTES 3&4, ADDED REPAIR		
3-28-80	DRAWN		
1-23-80	FILED		

ARKANSAS STATE HIGHWAY COMMISSION

PAVEMENT MARKING DETAILS

STANDARD DRAWING PM-1

 R1-1 30"x30" (L.T. or R.T.)	 W1-3 30"x30" (L.T. or R.T.)	 W1-8 18"x24"	 R1-2 36"x36"x36"	 W1-3 30"x30" (L.T. or R.T.)	 W1-4 30"x30" (L.T. or R.T.)	 W2-5 30"x30"	 W5-1 36"x36"	 M6-3 21"x15"	 M6-4 21"x15"	 R2-1 24"x30"	 W1-5 30"x30" (L.T. or R.T.)	 W2-2 30"x30"	 W5-2 36"x36"	 W3-1 36"x36"	 S1-1 36"x36"	 W3-2 36"x36"	 M6-5 21"x15"	 M6-6 21"x15"	 M6-1 21"x15"	 M6-2 21"x15"	 M6-3 21"x15"	 M6-4 21"x15"	 M6-5 21"x15"	 M6-6 21"x15"	 M6-7 21"x15"	 M6-8 21"x15"	 M6-9 21"x15"	 M6-10 21"x15"	 M6-11 21"x15"	 M6-12 21"x15"	 M6-13 21"x15"	 M6-14 21"x15"	 M6-15 21"x15"	 M6-16 21"x15"	 M6-17 21"x15"	 M6-18 21"x15"	 M6-19 21"x15"	 M6-20 21"x15"	 M6-21 21"x15"	 M6-22 21"x15"	 M6-23 21"x15"	 M6-24 21"x15"	 M6-25 21"x15"	 M6-26 21"x15"	 M6-27 21"x15"	 M6-28 21"x15"	 M6-29 21"x15"	 M6-30 21"x15"	 M6-31 21"x15"	 M6-32 21"x15"	 M6-33 21"x15"	 M6-34 21"x15"	 M6-35 21"x15"	 M6-36 21"x15"	 M6-37 21"x15"	 M6-38 21"x15"	 M6-39 21"x15"	 M6-40 21"x15"	 M6-41 21"x15"	 M6-42 21"x15"	 M6-43 21"x15"	 M6-44 21"x15"	 M6-45 21"x15"	 M6-46 21"x15"	 M6-47 21"x15"	 M6-48 21"x15"	 M6-49 21"x15"	 M6-50 21"x15"	 M6-51 21"x15"	 M6-52 21"x15"	 M6-53 21"x15"	 M6-54 21"x15"	 M6-55 21"x15"	 M6-56 21"x15"	 M6-57 21"x15"	 M6-58 21"x15"	 M6-59 21"x15"	 M6-60 21"x15"	 M6-61 21"x15"	 M6-62 21"x15"	 M6-63 21"x15"	 M6-64 21"x15"	 M6-65 21"x15"	 M6-66 21"x15"	 M6-67 21"x15"	 M6-68 21"x15"	 M6-69 21"x15"	 M6-70 21"x15"	 M6-71 21"x15"	 M6-72 21"x15"	 M6-73 21"x15"	 M6-74 21"x15"	 M6-75 21"x15"	 M6-76 21"x15"	 M6-77 21"x15"	 M6-78 21"x15"	 M6-79 21"x15"	 M6-80 21"x15"	 M6-81 21"x15"	 M6-82 21"x15"	 M6-83 21"x15"	 M6-84 21"x15"	 M6-85 21"x15"	 M6-86 21"x15"	 M6-87 21"x15"	 M6-88 21"x15"	 M6-89 21"x15"	 M6-90 21"x15"	 M6-91 21"x15"	 M6-92 21"x15"	 M6-93 21"x15"	 M6-94 21"x15"	 M6-95 21"x15"	 M6-96 21"x15"	 M6-97 21"x15"	 M6-98 21"x15"	 M6-99 21"x15"	 M6-100 21"x15"	 M6-101 21"x15"	 M6-102 21"x15"	 M6-103 21"x15"	 M6-104 21"x15"	 M6-105 21"x15"	 M6-106 21"x15"	 M6-107 21"x15"	 M6-108 21"x15"	 M6-109 21"x15"	 M6-110 21"x15"	 M6-111 21"x15"	 M6-112 21"x15"	 M6-113 21"x15"	 M6-114 21"x15"	 M6-115 21"x15"	 M6-116 21"x15"	 M6-117 21"x15"	 M6-118 21"x15"	 M6-119 21"x15"	 M6-120 21"x15"	 M6-121 21"x15"	 M6-122 21"x15"	 M6-123 21"x15"	 M6-124 21"x15"	 M6-125 21"x15"	 M6-126 21"x15"	 M6-127 21"x15"	 M6-128 21"x15"	 M6-129 21"x15"	 M6-130 21"x15"	 M6-131 21"x15"	 M6-132 21"x15"	 M6-133 21"x15"	 M6-134 21"x15"	 M6-135 21"x15"	 M6-136 21"x15"	 M6-137 21"x15"	 M6-138 21"x15"	 M6-139 21"x15"	 M6-140 21"x15"	 M6-141 21"x15"	 M6-142 21"x15"	 M6-143 21"x15"	 M6-144 21"x15"	 M6-145 21"x15"	 M6-146 21"x15"	
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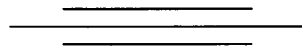
ADVANCE DISTANCES (XXXX)		500 FT	1/2 MILE	1000 FT	3/4 MILE	1500 FT	1 MILE	AHEAD
<p>GENERAL NOTES:</p> <p>1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.</p> <p>2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.</p> <p>3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEARLY VISIBLE. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.</p> <p>4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE "M" BARRICADE.</p> <p>5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POST. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED RED. ALL POSTS SHALL BE PROPERLY SPACED FOR THE LOCATION OF THE SIGN. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.</p> <p>6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.</p> <p>7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 10' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. PORTABLE SUPPORTS SHALL BE CONSTRUCTED TO BE NOT LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY.</p> <p>8. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.</p> <p>9. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADLESS FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.</p> <p>10. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS COULD BE CHANGED TO THE LEFT OR REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.</p> <p>11. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1/2 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGNS SHALL BE PLACED IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.</p> <p>12. NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 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1000.</p>								
R1-1	STOP	STANDARD EXPRESSWAY SPECIAL	30"x30" 36"x36" 48"x48"	30"x30" 36"x36" 48"x48"	30"x30" 36"x36" 48"x48"	30"x30" 36"x36" 48"x48"	30"x30" 36"x36" 48"x48"	30"x30" 36"x36" 48"x48"
R1-2	YIELD		36"x36"x36" EXP. 48"x48"x48" FWY. 60"x60"x60"	36"x36"x36" EXP. 48"x48"x48" FWY. 60"x60"x60"	36"x36"x36" EXP. 48"x48"x48" FWY. 60"x60"x60"	36"x36"x36" EXP. 48"x48"x48" FWY. 60"x60"x60"	36"x36"x36" EXP. 48"x48"x48" FWY. 60"x60"x60"	36"x36"x36" EXP. 48"x48"x48" FWY. 60"x60"x60"
R2-1	SPEED LIMIT 50		STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"
W3-5	ROAD CLOSED THRU TRAFFIC		STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"
R4-1	DO NOT PASS		STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"
R4-2	PASS WITH CARE		STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"	STD. 24"x30" EXP. 36"x36" FWY. 48"x48"
W3-5a	XX MPH SPEED ZONE AHEAD		STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"	STD. 36"x36" EXP. 48"x48" FWY. 60"x60"
W3-1	ROAD WORK XXX		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-2	ROAD WORK XXX		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-3	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-4	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-5	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-6	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-7	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-8	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-9	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-10	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-11	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-12	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-13	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-14	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-15	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-16	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-17	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-18	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-19	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-20	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-21	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-22	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-23	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-24	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-25	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-26	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"
W3-27	ROAD NARROWS		STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x36" SPECIAL 48"x48"	STD. 36"x		

ARKANSAS STATE HIGHWAY COMMISSION



STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

EDITION OF 2014



PROPOSAL DOCUMENTS AND SCHEDULE OF ITEMS

ARKANSAS STATE HIGHWAY COMMISSION

PROPOSAL DOCUMENTS

PROPOSAL FOR CONSTRUCTING:

THE PURPOSE OF THIS PROJECT IS TO OVERLAY APPROXIMATELY 1.54 MILES OF VARIOUS CITY STREETS IN THE CITY OF BONO IN CRAIGHEAD COUNTY, APPROXIMATELY 1.61 MILES OF VARIOUS CITY STREETS IN THE CITY OF LEACHVILLE IN MISSISSIPPI COUNTY, AND APPROXIMATELY 1.94 MILES OF VARIOUS CITY STREETS IN THE CITY OF MONETTE IN CRAIGHEAD COUNTY. THIS PROJECT CONSISTS OF AGGREGATE BASE COURSE, ACHM SURFACE COURSE, COLD MILLING, ACHM PATCHING OF EXISTING ROADWAY, MAINTENANCE OF TRAFFIC, PAVEMENT MARKINGS, AND MISC. ITEMS.

City Street VARIOUS in **CRAIGHEAD & MISSISSIPPI** County, Arkansas, in accordance with Standard Specifications for Highway Construction, Edition of 2014; the Supplemental Specifications and Special Provisions attached hereto; and the Construction Plans on file in the Office of the State Highway Commission, designated as

Job **C76050** **STATE AID CITY JOB (CODE 9971)**

Job Name: **BONO, LEACHVILLE & MONETTE OVERLAY & SURF. (SEL. SECS.) (S)**

said project being approximately **5.09 miles in length**.

Proposal received until 10:00 a.m. on April 10, 2019

TO THE ARKANSAS STATE HIGHWAY COMMISSION:

Gentlemen: By submission of your bid, you agree to the following:

It is hereby certified that a careful examination has been made of the Plans, Specifications, Supplemental Specifications, Special Provisions, and Form of Contract and the site of the work throughout its whole extent. On the basis of the Plans, Specifications, Supplemental Specifications, Special Provisions, and Form of Contract, the bidder proposes to furnish all necessary machinery, equipment, tools, labor and other means of construction, and to furnish all materials as specified, in the manner and at the time prescribed, and to finish the entire project within the time hereinafter proposed. The bidder understands that the quantities of work mentioned herein are approximate only, and are subject to increase or decrease, and hereby proposes to perform all quantities of work, whether increased or decreased, in accordance with the provisions of the Specifications, and at the unit prices bid in the attached Schedule of Items.

Receipt is hereby specifically acknowledged, and complete examination expressly guaranteed of the following:

1. Standard Specifications for Highway Construction, Edition of 2014.
2. Supplemental Specifications.
3. Special Provisions.
4. Proposal Documents.
5. Schedule of Items.
6. Construction Plans.

The bidder further proposes to perform all Extra Work that may be required, on the basis provided in the Specifications, and to give such work personal attention, and to secure economical performance.

The bidder further proposes to execute the contract agreement, and to furnish satisfactory bonds within ten days after he has received notice that he has been awarded the contract. The bidder further agrees to begin work when ordered by the Engineer, or within ten days thereafter, and to complete the work **within thirty-five (35) working days**.

PROPOSAL DOCUMENTS

(Continued)

The bidder also proposes to furnish a surety Performance bond or bonds in a sum equal to the full amount of the contract and a surety Payment bond or bonds in a sum equal to 80% of the full amount of the contract. These bonds shall not only serve to guarantee the completion of the work and payment of all bills and claims by the bidder, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications and Special Provisions fulfilled.

The bidder shall furnish a Proposal Guaranty in the form specified in Subsection 102.09 of the Specifications, in the amount of five percent (5%) of the total amount bid, which is submitted as a guarantee of the good faith of the proposal, and that the Bidder will enter into written contract, as provided, to do the work should the award be made to him; and it is hereby agreed that if, at any time other than as provided in Subsection 102.11 of the Standard Specifications, Withdrawal/Modification of Proposals, the bidder should withdraw his proposal, or should fail to execute the contract and furnish satisfactory bonds as herein provided, if his proposal is accepted, the Arkansas State Highway Commission, in either of such events, shall be entitled and is hereby given the right to retain the Proposal Guaranty, not as a penalty, but as liquidated damages, it being understood and agreed by the bidder that the amount of the Proposal Guaranty is a reasonable sum to be fixed as liquidated damages considering the damages the Arkansas State Highway Commission will sustain in the event of the bidder's withdrawal of his proposal, or failure to execute the contract and furnish satisfactory bonds if his proposal is accepted, and said amount is herein agreed upon and fixed as liquidated damages because of the difficulty of ascertaining the exact amount of damage that may be sustained by reason of the above set out circumstances.

Arkansas Department of Transportation
Schedule of Items

State Job No.: C76050

Date Estimated: 2/1/2019

Job Name: BONO, LEACHVILLE & MONETTE OVERLAY & SURF. (SEL. SECS.) (S)

Date Revised:

Federal Aid Project: 9971

Line Number	Item Code and Description	Estimated Quantity	Unit Bid Price	Price Extension
Section 01 - PROPOSAL ITEMS				
0001	SP - SCARIFYING AND RECOMPACTING ROADWAY	3.000 STA		
0002	SS&303 - AGGREGATE BASE COURSE (CLASS 7)	3,398.000 TON		
0003	SS&401 - TACK COAT	5,757.000 GAL		
0004	SPSS407 - MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	6,943.000 TON		
0005	SPSS407 - ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (3/8") (MINIMUM BID \$120.00)	404.000 TON		
0006	412 - COLD MILLING ASPHALT PAVEMENT	1,553.000 SQYD		
0007	SPSS415 - ACHM PATCHING OF EXISTING ROADWAY	315.000 TON		
0008	603 - MAINTENANCE OF TRAFFIC	1.000 L.S.		
0009	SS&604 - SIGNS	576.000 SQFT		
0010	718 - REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")	70.000 LF		
0011	718 - REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (4")	2,552.000 LF		
0012	SS&726 - STANDARD SIGN	12.000 SQFT		
0013	729 - CHANNEL POST SIGN SUPPORT (TYPE C)	2.000 EACH		
			Section 01 Total:	
			Subtotal:	
0014	601 - MOBILIZATION (UNIT BID AMOUNT MAY NOT EXCEED 5% OF SUBTOTAL)	1.000 L.S.		
			Bid Total:	

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENT TO PROPOSAL
ANTI-COLLUSION AND DEBARMENT CERTIFICATION

**FAILURE TO EXECUTE AND SUBMIT THIS CERTIFICATION SHALL RENDER THIS
BID NONRESPONSIVE AND NOT ELIGIBLE FOR AWARD CONSIDERATION.**

As a condition precedent to the acceptance of the bidding document for this project, the bidder shall file this Affidavit executed by, or on behalf of the person, firm, association, or corporation submitting the bid. The original of this Affidavit shall be filed with the Arkansas Department of Transportation **at the time proposals are submitted.**

A F F I D A V I T

I hereby certify, under penalty of perjury under the laws of the United States and/or the State of Arkansas, that the bidder listed below has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the submitted bid for this project, is not presently barred from bidding in any other jurisdiction as a result of any collusion or any other action in restraint of free competition, and that the foregoing is true and correct.

Further, that except as noted below, the bidder, or any person associated therewith in the capacity of owner, partner, director, officer, principal investigator, project director, manager, auditor, or any position involving the administration of Federal funds:

- a. is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal, State, or Local agency;
- b. has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal, State, or Local agency within the past 3 years;
- c. does not have a proposed debarment pending; and
- d. has not been indicted, convicted, or had an adverse civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENT TO PROPOSAL
ANTI-COLLUSION AND DEBARMENT CERTIFICATION

**FAILURE TO EXECUTE AND SUBMIT THIS CERTIFICATION SHALL RENDER THIS
BID NONRESPONSIVE AND NOT ELIGIBLE FOR AWARD CONSIDERATION.**

EXCEPTIONS:

APPLIED TO	INITIATING AGENCY	DATES OF ACTION

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

Job No. _____	_____
	(Name of Bidder)
F.A.P. No. _____	_____
	(Signature)
_____	_____
(Date Executed)	(Title of Person Signing)

The following Notary Public certification is **OPTIONAL** and may or may not be completed at the contractor's discretion.

State of _____)
County of _____)ss.

_____, being duly sworn, deposes and says that he is

_____ of _____
(Title) (Name of Bidder)

and that the above statements are true and correct.

Subscribed and Sworn to before me this _____ day of _____, 20_____.

My commission expires: _____.

(NOTARY SEAL)

(Notary Public)

2/28/18

ARKANSAS DEPARTMENT OF TRANSPORTATION
SUPPLEMENT TO PROPOSAL
RESTRICTION OF BOYCOTT OF ISRAEL CERTIFICATION

Pursuant to Arkansas Code Annotated § 25-1-503, a public entity **shall not** enter into a contract valued at \$1,000 or greater with a company unless the contract includes a written certification that the person or company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

By signing below, the Contractor agrees and certifies that they do not boycott Israel and will not boycott Israel during the remaining aggregate term of the contract.

If a company does boycott Israel, see Arkansas Code Annotated § 25-1-503.

Bid Number/Contract Number	
Description of product or service	
Contractor name	

Contractor Signature: _____

Date: _____